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THE MAINE BULLETIN

VOL. XVIII

DECEMBER, 1915

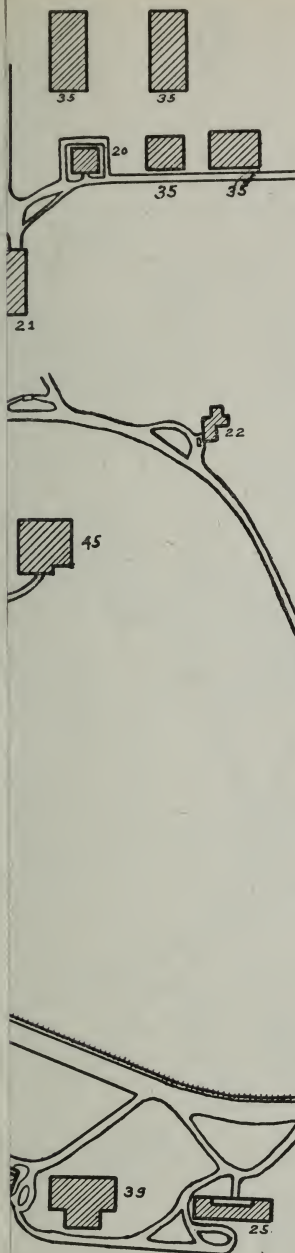
NO. 4

CATALOG
OF THE
UNIVERSITY OF MAINE



1915 - 1916

Published monthly during the academic year by the University
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KEY TO MAP

- 1 Athletic Field
- 2 Grand Stand
- 3 Beta Theta Pi House
- 4 Tennis Courts
- 5 Pumping Station
- 6 Janitor's House
- 7 Oak Hall
- 8 Wingate Hall
- 9 Fernald Hall
- 10 Power House
- 11 Alumni Hall
- 12 Carpenter Shop
- 13 Coburn Hall
- 14 President's House
- 15 Observatory
- 16 Horticultural Building
- 17 Holmes Hall
- 18 Home Economics Laboratory
- 19 Stable
- 20 Dairy Building
- 21 Barns
- 22 Farm Superintendent's House
- 23 Professor's House
- 24 Kappa Sigma House
- 25 Mt. Vernon House
- 26 Phi Gamma Delta House
- 27 B. O. & O. Waiting Rooms
- 28 Lord Hall
- 29 North Hall
- 30 Phi Kappa Sigma House
- 31 Sigma Alpha Epsilon House
- 32 Store House
- 33 Infirmary
- 34 Library
- 35 Farm Buildings
- 36 Heating Plant
- 37 Winslow Hall
- 38 Theta Chi House
- 39 Phi Eta Kappa House
- 40 Stock Judging Pavilion
- 41 Delta Tau Delta House
- 42 Hannibal Hamlin Hall
- 43 Professors' Houses
- 44 Estabrooke Hall
- 45 Balentine Hall
- 46 Baseball Grand Stand
- 47 Aubert Hall

STILLWATER RIVER

- KEY TO MAP
- 1 Athletic Field
 - 2 Grand Stand
 - 3 Beta Theta Pi House
 - 4 Tennis Courts
 - 5 Pumping Station
 - 6 Janitor's House
 - 7 Oak Hall
 - 8 Wingate Hall
 - 9 Fernald Hall
 - 10 Power House
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 - 23 Professor's House
 - 24 Kappa Sigma House
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 - 27 R. O. & O. Waiting Rooms
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 - 29 North Hall
 - 30 Phi Kappa Sigma House
 - 31 Sigma Alpha Epsilon House
 - 32 Store House
 - 33 Infirmary
 - 34 Library
 - 35 Farm Buildings
 - 36 Heating Plant
 - 37 Winslow Hall
 - 38 Theta Chi House
 - 39 Phi Eta Kappa House
 - 40 Stock Judging Pavilion
 - 41 Delta Tau Delta House
 - 42 Hannibal Hamlin Hall
 - 43 Professors' Houses
 - 44 Estabrooke Hall
 - 45 Valentine Hall
 - 46 Baseball Grand Stand
 - 47 Aubert Hall



CATALOG OF THE

UNIVERSITY OF MAINE

1915-1916



ORONO, MAINE

Printed for the University
WATERVILLE
SENTINEL PUBLISHING COMPANY
1915

1915	1916	1916	1917
JULY	JANUARY	JULY	JANUARY
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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AUGUST	FEBRUARY	AUGUST	FEBRUARY
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SEPTEMBER	MARCH	SEPTEMBER	MARCH
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OCTOBER	APRIL	OCTOBER	APRIL
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NOVEMBER	MAY	NOVEMBER	MAY
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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DECEMBER	JUNE	DECEMBER	JUNE
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

CALENDAR

FALL SEMESTER, 1915

September 10-14,		Arrearage examinations; entrance examinations
September 15,	Wednesday,	Registration begins, 8.00 A. M.
September 16,	Thursday,	Registration; first chapel, 10.30 A. M.
November 25,	Thursday,	Thanksgiving Day, a holiday
December 22,	Wednesday,	Christmas recess begins, 5.05 P. M.

1916

January 6,	Thursday,	Christmas recess ends, 8.00 A. M.
January 28,	Friday,	Fall semester ends, 5.05 P. M.

SPRING SEMESTER, 1916

January 29,	Saturday,	Registration
January 31,	Monday,	Spring semester begins, 8.00 A. M.
February 22,	Tuesday,	Washington's Birthday, a holiday
March 22,	Wednesday,	Spring recess begins, 5.05 P. M.
March 30,	Thursday,	Spring recess ends, 8.00 A. M.
April 19,	Wednesday,	Patriot's Day, a holiday
May 30,	Tuesday,	Memorial Day
June 7-10,		Entrance examinations
June 11,	Sunday,	Baccalaureate address
June 12,	Monday,	Class Day
June 13,	Tuesday,	Meeting of Board of Trustees
June 14,	Wednesday,	COMMENCEMENT, 9.30 A. M.

SUMMER TERM

June 26,	Monday,	Summer Term begins, 8.00 A. M.
August 4,	Friday,	Summer Term ends

University of Maine

FALL SEMESTER, 1916

September 15-19,		Arrearage examinations; entrance examinations
September 20,	Wednesday,	Registration begins, 8.00 A. M.
September 21,	Thursday,	Registration; first chapel, 10.30 A. M.
November 30,	Thursday,	Thanksgiving Day, a holiday
December 20,	Wednesday,	Christmas recess begins, 12.00 M.

1917

January 4,	Thursday,	Christmas recess ends, 8.00 A. M.
February 2,	Friday,	Fall semester ends 5.05 P. M.

SPRING SEMESTER, 1917

February 3,	Saturday,	Registration
February 5,	Monday,	Spring semester begins, 8 A. M.
June 12,	Wednesday,	COMMENCEMENT

BOARD OF TRUSTEES

HON. SAMUEL WADSWORTH GOULD, B. S., PRESIDENT	Skowhegan
Term expires April 16, 1921	
EDWIN JAMES HASKELL, B. S.	Westbrook
Term expires December 31, 1916	
HON. CHARLES LESTER JONES	Corinna
Term expires April 17, 1917	
FREELAND JONES, LL. B.	Bangor
Term expires May 31, 1918	
CHARLES SWAN BICKFORD, B. S.	Belfast
Term expires April 13, 1919	
WILLIAM ALBERT MARTIN, CLERK	Houlton
Term expires May 7, 1920	
HON. WILLIAM HENRY LOONEY	Portland
Term expires September 10, 1921	
HON. FREDERIC HASTINGS STRICKLAND	Bangor
Term expires April 28, 1922	

EXECUTIVE COMMITTEE: Gould, F. Jones, and Strickland

FARM COMMITTEE: F. Jones, C. L. Jones, and Martin

MAINE AGRICULTURAL EXPERIMENT STATION COUNCIL

ROBERT JUDSON ALEY, PH. D., LL. D.	<i>President</i>
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WILLIAM ALBERT MARTIN, Houlton	
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EUGENE HARVEY LIBBY, Auburn	<i>State Grange</i>
HOWARD LINCOLN KEYSER, Greene	<i>State Pomological Society</i>
FRANK SAMUEL ADAMS, Bowdoinham	<i>State Dairymen's Association</i>
WILLIAM GEORGE HUNTON, Cherryfield	<i>Maine Seed Improvement Association</i>
LEONARD CLEMENT HOLSTON, Cornish	<i>Maine Livestock Breeders' Association</i>
JAMES MONROE BARTLETT, M. S.	} <i>Members</i>
EDITH MARION PATCH, PH. D.	
WARNER JACKSON MORSE, PH. D.	
RAYMOND PEARL, PH. D.	
HERMAN HERBERT HANSON, M. S.	
FRANK MACY SURFACE, PH. D.	<i>of the</i> <i>Station Staff</i>

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CHARLES JOHN DUNN, TREASURER
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LEON STEPHEN MERRILL, DEAN OF THE COLLEGE OF AGRICULTURE
JAMES STACY STEVENS, DEAN OF THE COLLEGE OF ARTS AND
SCIENCES
CHARLES DAYTON WOODS, DIRECTOR OF THE AGRICULTURAL EX-
PERIMENT STATION
WILLIAM EMANUEL WALZ, DEAN OF THE COLLEGE OF LAW
HAROLD SHERBURNE BOARDMAN, DEAN OF THE COLLEGE OF
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OF OTHER DEPARTMENTS

RALPH KNEELAND JONES, LIBRARIAN
EDGAR RAMEY WINGARD, DIRECTOR OF ATHLETICS
FRANK SHELDON CLARK, IN CHARGE OF MILITARY INSTRUCTION

*FACULTY OF INSTRUCTION AND INVESTIGATION

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Campus

PRESIDENT

A. B., Indiana University, 1888; A. M., 1890; Ph. D., University of Pennsylvania, 1897; LL. D., Franklin College, 1909

MERRITT CALDWELL FERNALD

54 Main Street

Emeritus Professor of Philosophy

A. B., Bowdoin College, 1861; A. M., 1864; Ph. D., 1881; LL. D., 1902, also University of Maine, 1908

JAMES MONROE BARTLETT

College Street

Chemist in the Agricultural Experiment Station

B. S., University of Maine, 1880; M. S., 1883

LUCIUS HERBERT MERRILL

100 Main Street

Professor of Biological and Agricultural Chemistry

B. S., University of Maine, 1883; Sc. D., 1908

JAMES NORRIS HART

College Street

Professor of Mathematics and Astronomy

DEAN OF THE UNIVERSITY

B. C. E., University of Maine, 1885; C. E., 1890; M. S., University of Chicago, 1897; Sc. D., University of Maine, 1908

FREMONT LINCOLN RUSSELL

80 Main Street

Professor of Bacteriology and Veterinary Science

B. S., University of Maine, 1885; V. S., New York College of Veterinary Surgeons, 1886

*Arranged in groups in order of seniority of appointment

Faculty

JAMES STACY STEVENS 99 Main Street

Professor of Physics

DEAN OF THE COLLEGE OF ARTS AND SCIENCES

B. S., University of Rochester, 1885; M. S., 1888; also Syracuse University, 1889; LL. D., University of Rochester, 1907

CHARLES DAYTON WOODS 55 Main Street

DIRECTOR OF THE AGRICULTURAL EXPERIMENT STATION

B. S., Wesleyan University, 1880; Sc. D., University of Maine, 1905

JOHN HOMER HUDDILSTON 105 Main Street

Professor of Greek and Classical Archeology

A. B., Baldwin University, 1890; also Harvard University, 1893; Ph. D., University of Munich, 1897

WILLIAM EMANUEL WALZ 8 Fifth Street, Bangor

Professor of Law

DEAN OF THE COLLEGE OF LAW

A. B., Northwestern College, 1880; A. M., 1882; LL. B., Harvard University, 1889; Litt. D., Bowdoin College, 1911

RALPH KNEELAND JONES 26 Bennoch Street

Librarian

B. S., University of Maine, 1886

JACOB BERNARD SEGALL 1 Mill Street

Professor of French

B. S. and B. L., University of Yassy, 1884; Ph. D., Columbia University, 1893

HAROLD SHERBURNE BOARDMAN 40 Main Street

Professor and Head of the Department of Civil Engineering

DEAN OF THE COLLEGE OF TECHNOLOGY

B. C. E., University of Maine, 1895; C. E., 1898

GEORGE DAVIS CHASE 59 Main Street

Professor of Latin

A. B., Harvard University, 1889; A. M., 1895; Ph. D., 1897

CAROLINE COLVIN University Inn

Professor of History

A. B., Indiana University, 1893; Ph. D., University of Pennsylvania, 1901

WARNER JACKSON MORSE 33 North Main Street

Plant Pathologist in the Agricultural Experiment Station

B. S., University of Vermont, 1898; M. S., 1903; Ph. D., University of Wisconsin, 1912

University of Maine

CHARLES PARTRIDGE WESTON College Street
Professor of Mechanics and Drawing

B. C. E., University of Maine, 1896; C. E., 1899; A. M., Columbia University, 1902

RAYMOND PEARL College Street
Biologist in the Agricultural Experiment Station

A. B., Dartmouth College, 1899; Ph. D., University of Michigan, 1902
CHARLES BARTO BROWN 83 Main Street

Professor of Railroad Engineering
Ph. B., Yale University, 1894; C. E., 1896
WALLACE CRAIG College Street

Professor of Philosophy
B. S., University of Illinois, 1898; M. S., 1901; Ph. D., University of Chicago, 1908

ROLAND PALMER GRAY College Street
Professor and Head of the Department of English

B. A., Columbia University, 1893; M. A. University of Rochester, 1908
RALPH HARPER McKEE College Street

Professor of Chemistry
A. B., University of Wooster, 1895; A. M., 1897; Ph. D., University of Chicago, 1901

GARRETT WILLIAM THOMPSON 53 Main Street
Professor of German

A. B., Amherst College, 1888; A. M., 1891; Ph. D., University of Pennsylvania, 1907

GUY ANDREW THOMPSON College Street
Professor of English Literature

A. B., University of Illinois, 1898; also Harvard University, 1900; A. M., 1901; Ph. D., University of Chicago, 1912

WINDSOR PRATT DAGGETT College Street
Professor of Public Speaking

Ph. B., Brown University, 1902
MINTIN ASBURY CHRYSLER College Street

Professor of Biology
B. A., Toronto University, 1894; Ph. D., University of Chicago, 1904
JOHN MANVERS BRISCOE College Street

Professor of Forestry
M. F., Yale University, 1909

Faculty

- LEON STEPHEN MERRILL Campus
Director of Agricultural Extension Service
 DEAN OF THE COLLEGE OF AGRICULTURE
 M. D., Bowdoin College, 1889
- EDGAR RAMEY WINGARD 46 Main Street
Professor of Physical Culture
 DIRECTOR OF ATHLETICS
 B. S., Susquehanna University, 1900; M. S., University of Pennsylvania, 1902
- GEORGE EDWARD SIMMONS 2 Forest Avenue
Professor of Agronomy
 B. S., Ohio Northern University, 1902; M. S., 1905; B. Sc., Ohio State University, 1909
- GEORGE WARE STEPHENS 76 North Main Street
Professor of Economics and Sociology
 Ph. B., Iowa Wesleyan College, 1904; M. A., University of Wisconsin, 1907; Ph. D., 1911
- WILLIAM EDWARD BARROWS, JR. Myrtle Street
Professor of Electrical Engineering
 B. S., University of Maine, 1902; E. E., 1908
- EDGAR MYRICK SIMPSON 31 Highland Avenue, Bangor
Professor of Law
 A. B., Bowdoin College, 1894
- BLISS S BROWN Forest Avenue
Professor of Horticulture
 B. S., Michigan Agricultural College, 1903; M. S., University of California, 1911
- EDITH MARION PATCH College Street
Entomologist in the Experiment Station
 B. S., University of Minnesota, 1901; M. S., University of Maine, 1910; Ph. D., Cornell University, 1911
- FRANK MACY SURFACE Bennoch Street
Biologist in the Agricultural Experiment Station
 A. B., Ohio State University, 1904; A. M., 1905; Ph. D., University of Pennsylvania, 1907
- LAMERT SEYMOUR CORBETT Campus
Professor of Animal Industry
 B. Sc., Massachusetts Agricultural College, 1909; M. S., State University of Kentucky, 1913

University of Maine

- FRANK SHELDON CLARK 97 Main Street
Professor of Military Science and Tactics
B. S., Norwich University, 1909; First Lieutenant, Coast Artillery Corps, U. S. Army
- ANDREW PAUL RAGGIO 102 Main Street
Professor of Spanish and Italian
B. A., University of Texas, 1896; A. M., Harvard University, 1902; Ph. D., 1904
- FRANCES ROWLAND FREEMAN University Inn
Professor of Home Economics
B. Sc., Ohio State University, 1910; M. Sc., 1911
- ROY FRANKLIN RICHARDSON 23 Mill Street
Professor of Education
A. B., Kansas State Normal College, 1909; Ph. D., Clark University, 1913
- WILLIAM JORDAN SWEETSER 57 Main Street
Professor of Mechanical Engineering
S. B., Massachusetts Institute of Technology, 1901
-
- HERMAN HERBERT HANSON 43 Forest Avenue
Associate Chemist in the Agricultural Experiment Station
B. S., Pennsylvania State College, 1902; M. S., University of Maine, 1906
- CHARLES WILSON EASLEY 7 Main Street
Associate Professor of Chemistry
A. B., Dickinson College, 1897; A. M., 1890; Ph. D., Clark University, 1908
- EDSON FOBES HITCHINGS 2 Summer Street
Associate Professor of Horticulture
C. E., University of Maine, 1875; M. S., 1889
- LEON ELMER WOODMAN 28 Bennoch Street
Associate Professor of Physics
A. B., Dartmouth College, 1899; A. M., 1902; Ph. D., Columbia University, 1910
- JAMES ADRIAN GANNETT 97 Main Street
Registrar
B. S., University of Maine, 1908
- ALBERT THEODORE CHILDS 55 Main Street
Associate Professor of Electrical Engineering
B. S., Worcester Polytechnic Institute, 1906; E. E., 1908

Faculty

- GEORGE HENRY WORSTER 234 Center Street, Bangor
Associate Professor of Law
 LL. B., University of Maine, 1905; LL. M., 1906
- HARLEY RICHARD WILLARD 32 Main Street
Associate Professor of Mathematics
 A. B., Dartmouth College, 1899; M. A., 1902; also Yale University, 1910; Ph. D., 1912
- ARCHER LEWIS GROVER 18 North Main Street
Associate Professor of Drawing
 B. M. E., University of Maine, 1889; B. S., 1902
- ALICE MIDDLETON BORING 13 Mill Street
Associate Professor of Zoology
 A. B., Bryn Mawr College, 1904; A. M., 1905; Ph. D., 1910
- WILLIAM AMBROSE JARRETT Forest Avenue
Associate Professor of Pharmacy
 Pharm. D., Massachusetts College of Pharmacy, 1913
- JULIUS ERNEST KAULFUSS Main Street
Associate Professor of Civil Engineering
 B. S., University of Wisconsin, 1908
- JAMES McCLUER MATTHEWS 35 North Main Street
Associate Professor of Economics and Sociology
 A. B., Park College, 1903; A. M., Harvard University, 1913
- DANIEL WILSON PEARCE 11 Mill Street
Associate Professor of Education
 A. B., Indiana University, 1910; A. M., 1912
- ROBERT RUTHERFORD DRUMMOND 80 North Main Street
Associate Professor of German
 B. S., University of Maine, 1905; Ph. D., University of Pennsylvania, 1909
- CARL HENRY LEKBERG Forest Avenue
Associate Professor of Mechanical Engineering
 B. S., University of Maine, 1907
- EMBERT HIRAM SPRAGUE University Inn
Acting Associate Professor of Civil Engineering
 B. S., Dartmouth College, 1900
- TRUMAN LEIGH HAMLIN Stillwater
Assistant Professor of Mathematics
 A. B., Western Reserve University, 1899; M. A., University of Missouri, 1902

University of Maine

- BARTLETT BROOKS 19 North Park, Bangor
Assistant Professor of Law
A. B., Harvard University, 1899; LL. B., 1902
- HARRY NEWTON CONSER Oak Street
Assistant Professor of Botany
B. S., Central Pennsylvania College, 1883; M. S., 1886; A. M., Harvard University, 1908
- LLOYD MEEKS BURGHART Forest Avenue
Assistant Professor of Chemistry
A. B., Lake Forest College, 1906; M. A., University of Maine, 1911
- RALPH WOODBURY REDMAN 10 Myrtle Street
Assistant Director of Agricultural Extension Service
B. S., University of Maine, 1912
- HAROLD SCOTT OSLER 22 Main Street
Assistant Professor of Agronomy
B. S., Muskingum College, 1909; also Michigan Agricultural College, 1913
- RAYMOND HARMAN ASHLEY Forest Avenue
Assistant Professor of Chemistry
B. Sc., Rutgers College, 1903; M. A., Yale University, 1905; Ph. D., 1906
- ALBERT GUY DURGIN Middle Street
Assistant Professor of Chemistry
B. S., University of Maine, 1908; M. S. 1909
- ALPHEUS CROSBY LYON 1 Bennoch Street
Assistant Professor of Civil Engineering
B. S., University of Maine, 1902; S. B., Massachusetts Institute of Technology, 1904; C. E., University of Maine, 1913
- LOWELL JACOB REED College Street
Assistant Professor of Mathematics
B. S., University of Maine, 1907; M. S., 1912; Ph. D., University of Pennsylvania, 1915
- HARRY WOODBURY SMITH 1 Forest Avenue
Assistant Professor of Bacteriology
B. S., University of Maine, 1909
- CARLETON WHIDDEN EATON Mill Street
Assistant Professor of Forestry
A. B., Bowdoin College, 1910; M. F., Yale University, 1912

Faculty

- RALPH MAYNARD HOLMES 115 Main Street
Assistant Professor of Physics
 B. A., University of Maine, 1911; M. A., Wesleyan University, 1913
- JOSEPH NEWELL STEPHENSON Gilbert Street
Assistant Professor of Chemistry
 S. B., Massachusetts Institute of Technology, 1909; M. S., Rose Polytechnic Institute, 1911
- BURNETT OLCOTT McANNEY University Inn
Assistant Professor of English
 A. B., Dickinson College, 1913; B. Lit., Columbia University, 1914
- FRANCES MARIA WHITCOMB University Inn
Assistant Professor of Home Economics
 B. S., Simmons College, 1910
- HAROLD JOSEPH SHAW Bath
Extension Representative, Sagadahoc County
- CLARENCE WALLACE BARBER Portland
Extension Representative, Cumberland County
 B. S., University of Maine, 1912; M. S., 1914
- CLARENCE ALBERT DAY Machias
Extension Representative, Washington County
- ARTHUR LOWELL DEERING Augusta
Extension Representative, Kennebec County
 B. S., University of Maine, 1912
- MORRIS DANIEL JONES Forest Avenue
Extension Representative, Penobscot County
 B. S., University of Maine, 1912
- GEORGE ALBERT YEATON Norway
Extension Representative, Oxford County
- WILSON MONTGOMERY MORSE Farmington
Extension Representative, Hancock County
 B. S., University of Maine, 1914
- HAROLD HARLAN NASH Sanford
Extension Representative, York County
- GEORGE NEWTON WORDEN Ellsworth
Extension Representative, Hancock County
 B. S., University of Maine, 1913
- RALPH PIKE MITCHELL 3 Pond Street
In charge of Boys Agricultural Club Work

University of Maine

- MARIE WILHEMINA GURDY University Inn
In Charge of Girls Agricultural Club Work
 B. S., Simmons College, 1913
- WILLIAM COLLINS MONAHAN 2 Bennoch Street
In Charge of Poultry Extension Work
 B. S., University of Maine, 1914
- PAUL WHEELER MONOHON 108 Hannibal Hamlin Hall
Assistant State Leader, Farm Demonstration Work
 B. S., University of Maine, 1914
- JOSEPH HENRY BODWELL Foxcroft
Extension Representative, Piscataquis County
 B. S., University of Maine, 1915
- JAMES EVERETT CHAPMAN 59 Main Street
Extension Instructor in Soils
 B. A., Carleton College, 1910; M. S., University of Minnesota, 1915
- CATHARINE NORTON PLATTS University Inn
Extension Representative in Home Economics
 B. S., Simmons College, 1911
-
- EVERETT WILLARD DAVEE College Street
Instructor in Wood and Iron Work
- CHARLES JENKINS CARTER Forest Avenue
Instructor in Machine Tool Work
- MAYNIE ROSE CURTIS 13 Mill Street
Assistant Biologist in the Agricultural Experiment Station
 A. B., University of Michigan, 1905; A. M., 1908; Ph. D., 1913
- WALTER ELWOOD FARNHAM Forest Avenue
Instructor in Drawing
- WALTER EDMUND WILBUR 5 Pine Street
Instructor in Mathematics
 B. S., University of Maine, 1908; M. S., 1911
- ERNEST CONANT CHESWELL College Street
Instructor in Electrical Engineering
- ROYDON LINDSAY HAMMOND 59 Main Street
Seed Analyst and Photographer in the Agricultural Experiment Station
- EDWARD EUGENE SAWYER Old Town
Assistant Chemist in the Agricultural Experiment Station
 B. S., University of Maine, 1912

Faculty

- ELMER ROBERT TOBEY 3 Pond Street
Assistant Chemist in the Agricultural Experiment Station
 B. S., University of Maine, 1911
- MICHAEL SHAPOVALOV 5 Pond Street
Assistant Pathologist in the Agricultural Experiment Station
 B. A., University of Dorpat, 1903; M. S., University of Maine, 1913
- HERBERT SOLEY BAIN 53 Main Street
Instructor in German
 A. B., Wesleyan University, 1912
- DOROTHEA BEACH Mill Street
Instructor in Home Economics
- DAVID LEE CLARK North Main Street
Instructor in English
 B. A., East Texas College, 1907; A. M., University of North Carolina, 1909
- MARTIN ANDREW NORDGAARD 18 Mill Street
Instructor in Mathematics
 A. B., St. Olaf College, 1903; M. A., University of Maine, 1914
- ELWOOD WHITNEY JENNISON 233 Cedar Street, Bangor
Instructor in Mechanical Engineering
 B. S., University of Maine, 1913
- JOHN RICE MINER 3 Pond Street
Computer in the Agricultural Experiment Station
 A. B., University of Michigan, 1913
- JACOB ZINN 14 Bennoch Street
Assistant Biologist in the Agricultural Experiment Station
 Agr. D., Hochschule für Bodenkultus, 1914
- TIMOTHY JEREMIAH CONNORS, Jr. Forest Avenue
Instructor in Pharmacy
 Pharm. D., Massachusetts College of Pharmacy, 1912
- JAMES JOHN DONEGAN Mill Street
Instructor in Civil Engineering
 Ph. B., Yale University, 1909
- RAYMOND FLOYD University Inn
Instructor in German
 B. A., University of Maine, 1913
- NORMAN RICHARDS FRENCH 205 Hannibal Hamlin Hall
Instructor in Physics
 B. A., University of Maine, 1913

University of Maine

- WILLIAM GORDON JAMES 75 North Main Street
Instructor in Electrical Engineering
 B. S., Kansas State Agricultural College, 1913
- FRANÇOIS JOSEPH KUENY University Inn
Instructor in French
 B. ès L., University of Paris, 1897; L. ès L., Besançon, 1901
- ARTHUR WHITING LEIGHTON University Inn
Instructor in Drawing
- ALEXANDER LURIE Forest Avenue
Instructor in Horticulture
 B. S., Cornell University, 1913
- SIDNEY WINFIELD PATTERSON Hannibal Hamlin Hall
Instructor in Biological and Agricultural Chemistry
 B. S., University of Maine, 1914
- GLEN BLAINE RAMSEY University Inn
Instructor in Biology
 A. B., Indiana University, 1913; A. M., 1914
- NEIL CARPENTER SHERWOOD Campus
Instructor in Animal Industry
 B. S., University of Maine, 1914
- HARRY GILBERT MITCHELL 57 Main Street
Instructor in Chemistry
 B. S., Dartmouth College, 1910; A. M., Columbia University, 1914
- ROSCOE WOODS College Street
Instructor in Mathematics
 A. B., Georgetown College, 1914
- HARRY CHAMBERLAIN BROWN 28 Bennoch Street
Instructor in Physics
 B. S., Brown University, 1913
- WILBERT AMIE CLEMENS 206 Hannibal Hamlin Hall
Instructor in Biology
 B. A., University of Toronto, 1912; M. A., 1913; Ph. D., Cornell University, 1915
- ROLAND LEGARD DAVIS University Inn
Instructor in Civil Engineering
 B. S., Virginia Polytechnic Institute, 1915
- GUY LINTON DIFFENBAUGH College Street
Instructor in English
 B. A., Franklin and Marshall College, 1912; A. M., Harvard University, 1915

Faculty

- CHESTER HAMLIN GOLDSMITH College Street
Instructor in Chemistry
 B. S., University of Maine, 1915
- HELEN ANN KNIGHT University Inn
Instructor in Home Economics
 Ph. B., University of Chicago, 1915
- FREDERICK WILLIAM LANE College Street
Instructor in Chemistry
 S. B., Massachusetts Institute of Technology, 1914
- ELMER LELAND PARTRIDGE University Inn
Instructor in Mechanical Engineering
 B. S., Case School of Applied Science, 1913
- ALTON WILLARD RICHARDSON Stillwater Avenue, Old Town
Instructor in Animal Industry
 B. S., University of Maine, 1906
- ZOETH RANSOM RIDEOUT 1 Bennoch Street
Instructor in English
 A. B., College of the Pacific, 1913; A. M., Columbia University, 1914
- WALTER HENRY ROGERS Campus
Assistant Chemist in the Agricultural Experiment Station
 B. S., University of Maine, 1915
- MYER SEGAL 53 Main Street
Instructor in German
 A. B., Bates College, 1909; A. M., Columbia University, 1910
- THOMAS WILLIAM SHEEHAN Pleasant Street
Instructor in English
 A. B., Clark College, 1909; A. M., Pennsylvania State College, 1915
- J FRED THOMAS College Street
Instructor in Animal Industry
 B. S., Iowa State College, 1915
- STANLEY BEN SINK 7 Pine Street
Instructor in Agronomy
 B. Sc., Ohio State University, 1915
- HILDA ESTELLE VAUGHAN College Street
Instructor in English and in charge of Physical Education for Women
 A. B., Acadia University, 1908; also Smith College, 1909; A. M., 1912
- ALBERT AMES WHITMORE University Inn
Instructor in History
 B. S., University of Maine, 1906

University of Maine

MARGARET JUNE KELLEY 52 Essex Street, Bangor
Assistant in German

B. A., University of Maine, 1912

ARTHUR NELSON SMITH University Inn
Assistant in Physical Training

AVA HARRIET CHADBOURNE College Street
Assistant in Education

B. A., University of Maine, 1915

HENRY VIGOR CRANSTON 106 Hannibal Hamlin Hall
Assistant in Public Speaking

B. A., Pennsylvania State College, 1915

WILLIS CARL LANE 408 Oak Hall
Assistant in Biology

B. Sc., Ohio State University, 1915

MAY ELLA TAFT 14 Bennoch Street
Cataloger in the Library

B. A., Wellesley College, 1908; B. S., Simmons College, 1912

GENEVA ALICE REED College Street
Assistant in the Library

B. A., University of Maine, 1910

ANNE ELIZABETH HARWOOD 14 Bennoch Street
Assistant in the Library

B. S., Simmons College, 1913

LECTURERS

LUCILIUS ALONZO EMERY Ellsworth
Lecturer on Roman and Probate Law

A. B., Bowdoin College, 1861; A. M., 1864; LL. D., 1898

LOUIS CARVER SOUTHARD Boston
Lecturer on Medico-Legal Relations

B. S., University of Maine, 1875; M. S., 1892; LL. D., 1904

EDWARD HARWARD BLAKE 107 Court Street, Bangor
Lecturer on Admiralty

LL. B., Albany Law School, 1878; LL. D., University of Maine, 1910
ISAAC WATSON DYER Portland

*Lecturer on Federal Jurisdiction and Procedure, and on Private
Corporations*

A. B., Bowdoin College, 1878

JOHN ROGERS MASON 48 Madison Street, Bangor
Lecturer in Bankruptcy Law

A. B., Harvard University, 1869; A. M., LL. B., 1872

Faculty

WILLIAM BRIDGHAM PEIRCE 25 Parkview Avenue, Bangor
Resident Lecturer on Maine Practice

B. M. E., University of Maine, 1890

HENRY BURT MONTAGUE Southbridge, Mass.
Lecturer on Practice and History of Law

LL. B., Cornell University, 1895; LL. M., University of Maine, 1910

LAWRENCE VIVIAN JONES 267 Pine Street, Bangor
Lecturer on Forestry Law

LL. B., University of Maine, 1910

COMMITTEES OF THE FACULTY

ADMISSION—The Deans and President

ATHLETICS—Wingard, F. S. Clark, Gannett, L. S. Merrill, Sprague,
Worster

ATTENDANCE—C. B. Brown, Corbett, Hamlin, Lekberg, Simpson

AUDITING—L. H. Merrill, Brooks, Burghart, Eaton, Grover, G. A.
Thompson

CHAPEL—Barrows, Hitchings, Matthews, Stephenson, Woodman

EMPLOYMENT—Gannett, Durgin, Simmons, Wilbur

FITTING SCHOOLS—Chase, Easley, Hart, L. S. Merrill, Pearce, Richard-
son, Stephens, Weston

GRADUATE STUDY—Chase, Colvin, Craig, McKee, L. H. Merrill, Morse,
Pearl, Segall, Walz, Willard, Woodman

HEALTH—Boardman, Ashley, Boring, Freeman, Jarrett, Lyons, Russell

HONORS—Chrysler, Briscoe, B. S. Brown, Kaulfuss, Smith, Walz

LIBRARY—R. K. Jones, Gray, Russell, Sweetser, G. W. Thompson, Wil-
lard

RULES—Stephens, Conser, Drummond, Holmes, Huddilston, Simmons

SCHEDULE—Weston, Gannett, Hamlin, Reed, the Deans

SOCIAL AFFAIRS—Huddilston, Briscoe, Colvin, Farnham, Freeman, Win-
gard

STUDENT ACTIVITIES—(NON-ATHLETIC)—McKee, Chairman

Sub-committees

DRAMATICS—Daggett, C. B. Brown, Raggio

MUSICAL—G. W. Thompson, Drummond, Raggio

SPEAKING AND DEBATING—Daggett, Stephens, G. A. Thompson

CAMPUS—Gray, Kaulfuss, McAnney

MISCELLANEOUS—McKee, Childs, F. S. Clark

STUDENT AFFAIRS—The Deans and President

UNIVERSITY PUBLICATIONS—Stevens, R. K. Jones, McAnney

GENERAL INFORMATION

HISTORY

The University of Maine is a part of the public educational system of the State. It was established as a result of the Morrill Act approved by President Lincoln July 2, 1862. The State of Maine accepted the conditions of this act in 1863. In 1865 the State created a corporation to administer the affairs of the college. The original name of the institution was the State College of Agriculture and the Mechanic Arts. The name was changed to the University of Maine in 1897.

The first Board of Trustees was composed of 16 members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Board members. At the present time seven members of the Board are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association.

The institution opened September 21, 1868, with a class of 12 members and a faculty of two teachers. By 1871 four curricula had been arranged,—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences.

The Maine Agricultural Experiment Station was established as a division of the University by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station which had been established in 1885.

Buildings

The College of Law was opened in 1898. It is an integral part of the institution but occupies quarters at the corner of Union and Second streets in Bangor.

Graduate instruction has been given by various departments for many years. The first Master's degree was conferred in 1881. There is no provision for graduate work in advance of that required for the Master's degrees.

Summer schools were held in cooperation with the State Department of Education in 1895, 1896, and 1897. These were of three weeks each and they attracted chiefly teachers in elementary schools. Beginning with 1902, a Summer Term has been held annually, first of five weeks but now of six. It is designed for teachers in secondary schools and for college students who desire to take advantage of its opportunities, and it also gives some courses for those who seek an opportunity to make up entrance credits. The departments usually offering courses are Chemistry, Economics and Sociology, Education, English, French, German, History, Latin, Mathematics and Astronomy, Physics, and Spanish and Italian.

The University is coeducational, women having been admitted since 1872, in compliance with special legal enactment.

LOCATION

The University is in the town of Orono, nine miles from Bangor. The campus, which is large and attractive, borders on the Stillwater River, a branch of the Penobscot.

Orono is reached by the Maine Central railroad, and by the cars of the Bangor Railway and Electric Company. The town has a population of about 3,500. It has good schools and churches. All the churches welcome student attendance.

BUILDINGS AND THEIR EQUIPMENT

BALENTINE HALL.—The Legislature of 1913 made an appropriation for the erection of one wing of a women's dormitory. This was completed September 1, 1914. The Legislature of 1915 made an appropriation for completing the building. The name was given in honor of Elizabeth Abbott Balentine, Secretary and Registrar of the University from 1895 to 1913. It contains accommodations for 52 women, and when completed will accommodate 110 women.

University of Maine

HANNIBAL HAMLIN HALL.—This is a men's dormitory completed in 1911. It contains four stories and a concrete basement. It was named for the Honorable Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees. It will accommodate 156 students.

MOUNT VERNON HOUSE.—This is a wooden building, remodeled in 1898, and is a dormitory for women. It is a three story building and will accommodate 36 students.

NORTH HALL.—This building is situated near the northern boundary of the campus. It is a three story wooden building and accommodates 32 women students.

OAK HALL.—This building was named for the Honorable Lyndon Oak, of Garland, a long time member and President of the Board of Trustees. It is a four story building erected in 1871 and has 48 rooms for students.

UNIVERSITY INN.—This is a wooden building, located in the village of Orono, which the university has leased for a term of years. It is occupied chiefly by instructors and has accommodations for fifty persons.

ALUMNI HALL.—This building was erected in 1900 and was given its name because funds required for its erection were subscribed by the Alumni of the University. It contains the gymnasium, chapel, and administrative offices.

AUBERT HALL.—This is a four story building including a high basement. It was named in honor of the late Alfred Bellamy Aubert, professor of Chemistry from 1874 to 1910. It is used by the departments of Chemistry and Physics.

COBURN HALL.—This building contains the department of Biology and the Museum and has recitation rooms for the departments of History and Economics and Sociology. It was named for ex-Governor Abner Coburn, of Skowhegan, a former president of the Board of Trustees.

ESTABROOKE HALL.—This building is used for the departments of English and Public Speaking, and was named for the late Horace M. Estabrooke, Professor of English from 1891 to 1908. It contains four recitation rooms, rooms for consultation purposes, and offices for the members of the departments.

Buildings

FERNALD HALL.—This is the oldest building on the campus and was erected for the department of Chemistry. It now contains the departments of French, Spanish and Italian, Education, Mathematics, and the University Store. It was named in honor of ex-President Merritt C. Fernald.

HOLMES HALL.—This building contains the offices and laboratories of the Maine Agricultural Experiment Station. It is a two story building in addition to a basement. It was named for Dr. Ezekiel Holmes, of Winthrop.

LIBRARY BUILDING.—The Library Building is of stone, two stories above a basement, and surmounted by a dome. For its erection and furnishing, Mr. Andrew Carnegie gave \$55,000, and the Hallowell Granite Works furnished the granite at a price that was equivalent to a gift of several thousand dollars. The stacks, which are in the rear of the main building, contain shelf room for 60,000 volumes.

LORD HALL.—This building was erected for the departments of Electrical Engineering and Mechanical Engineering. It is two stories in height and contains recitation rooms, laboratories, shops, drawing rooms, and offices for the members of these departments. It was named for the Honorable Henry Lord, of Bangor, a former President of the Board of Trustees.

STEWART HALL.—This building is situated in Bangor and contains offices and recitation rooms of the College of Law. It is three stories in height and was named for Honorable D. D. Stewart, of St. Albans, Maine, who has been a generous benefactor of this college.

WINGATE HALL.—This building contains three stories and a basement. It is used by the departments of Civil Engineering and Mechanics and Drawing, and includes recitation rooms and offices for the departments of Latin and Philosophy.

WINSLOW HALL.—This is a four story building including the basement. It contains offices, laboratories, and recitation rooms for the various departments of the College of Agriculture. It was named in honor of Honorable Edward B. Winslow, of Portland, a former president of the Board of Trustees. In the rear of this building is located the stock judging pavilion, which is an octagonal structure, having a seating capacity of 600.

DAIRY BUILDING.—This building contains various rooms appropriate for the department of Dairy Husbandry. It is supplied with the neces-

University of Maine

sary appliances for teaching methods of handling milk, cream, butter, and cheese.

FARM BUILDINGS.—These comprise two large barns containing the usual equipment, two tool houses, and a piggery. The farm of the University is composed of parcels of land aggregating 473 acres, of which 120 acres are under cultivation.

HORTICULTURAL BUILDING.—This includes a set of greenhouses east of Holmes Hall and furnishes opportunity for demonstration of the practical culture of flowers and vegetables under glass.

INFIRMARY.—This building is used in caring for cases of infectious diseases that may appear among the students. It is located in the rear of Hannibal Hamlin Hall.

OBSERVATORY.—The astronomical observatory stands on a slight elevation at the east of Alumni Hall. It contains equipment for work in descriptive and practical astronomy.

POULTRY PLANT.—The part of the plant that belongs to the College of Agriculture consists of a two and one half story building to which are attached brooder houses. The plant which belongs to the Agricultural Experiment Station contains an incubator house with tenement above, two poultry houses, a two story house, a building containing a hospital for hens, and rooms for digestion experiments.

ATHLETIC FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northern end of the campus. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, baseball, and track and field athletics. It contains a grandstand with a seating capacity of 2,100. There is also an out-door board running track 390 feet long by 12 feet wide.

CENTRAL HEATING PLANT.—The Central Heating Plant is located on low ground so that the buildings drain by gravity to the plant. It contains four 150 h. p. boilers, two Worthington duplex return pumps, and scales for weighing coal.

FRATERNITY HOUSES.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Phi Gamma Delta, Phi Kappa Sigma, Sigma Alpha Epsilon, Theta Chi, and the Phi Eta Kappa society have built houses on the campus; the local chapter of Sigma Nu is building a house on the campus; the local chapter of Lambda Chi Alpha owns a

Libraries

house adjoining the campus on College Street, and the local chapters of Alpha Tau Omega and Sigma Chi own houses on North Main Street. These houses accommodate from 25 to 35 students each.

POWER HOUSE.—This building is located north of Alumni Hall and contains two boilers, three engines, and two dynamos with operating switchboard.

OTHER BUILDINGS.—In addition to the buildings already described, there are several others devoted to various purposes. Among these are the President's house and five residences occupied by members of the faculty.

THE LIBRARIES

The university libraries contain (June 30, 1915) 56,451 volumes, of which 47,358 are in the general library, 4,271 in the Agricultural Experiment Station, and 4,822 in the law library. All of the Station library books are placed on the shelves of the general library except those required for constant reference by members of the Station staff. The law library is at the College of Law, Bangor. No other departmental libraries are maintained, but books required by departments are taken by them from the general library for temporary use.

The general library provides a very good working collection of books. The greater part have been secured by purchase, and more than half have been added within the last ten years. Most of the books bought are selected by heads of departments to meet the needs of students and the teaching staff. Many valuable sets of general, scientific, and technical periodicals are included in the collection. The Station library is of much value, including many sets of scientific journals. The law library is a carefully selected and useful collection, made since the Bangor fire of 1911, when the former library was completely destroyed. More than five hundred magazines and other serial publications are received regularly by the libraries.

The valuable horticultural library of Professor Welton M. Munson, a member of the university faculty from 1890 until 1907, was bequeathed by him to the University. The private mathematical library of President R. J. Aley, and a considerable portion of the library of the late Professor H. M. Estabrooke, the latter particularly strong in English literature and languages, are deposited in the general library where they are available for use.

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The libraries are classified by the Dewey decimal system, modified for certain classes. There is a card catalog, author, subject, and title. No restrictions are placed upon admission to the stacks.

The general library is open daily, during the academic year, from 8.00 A. M. to 5.30 P. M., and from 7.00 to 9.30 P. M., except Sundays and holidays. It is open Sunday afternoons from 2.30 to 5.30 and on holidays from 8.00 A. M. to 12.00 M. During the Summer Term it is open daily from 8.00 A. M. to 5.30 P. M., except Saturday afternoons and Sundays, and during vacations it is open daily, except Sundays and holidays, for somewhat shorter hours.

Students may borrow three volumes at a time, to be retained three weeks; if more are desired, application should be made to the Librarian. Officers of the University may borrow any reasonable number of volumes, without time limit, except that all books must be returned to the library nine days before Commencement. Other responsible persons may obtain the privileges of the library upon application to the Librarian.

It is the desire of the university authorities to make the general library as useful as possible to all citizens of the State, so that books are loaned to individuals and organizations when this may be done without interfering with the needs of faculty and students, the borrower paying transportation charges in both directions.

MUSEUM OF NATURAL HISTORY

MINTIN ASBURY CHRYSLER

Curator of the Botanical and Zoological Collections

LUCIUS HERBERT MERRILL

Curator of the Geological Collections

The museum occupies the wing of Coburn Hall and an adjoining room in the main part of the building.

GEOLOGICAL COLLECTIONS.—These collections, occupying the upper floor of the wing of Coburn Hall, are accessible daily during the college year, except on Saturdays and Sundays. They include the more important fragmental, crystalline, and volcanic rocks; a collection of building stones; a series designed to illustrate the rocks of the State; a general collection of more common minerals; a collection of economic minerals furnished by the United States National Museum; an educational series of rocks furnished by the United States Geological Survey; and a small collection of plant and animal fossils.

Museum

The part of the museum illustrating the mineral resources of the State may be made of great value, both from the scientific and economic standpoint. Students and others residing in the State are urged to contribute specimens from their home localities.

ZOOLOGICAL COLLECTIONS.—These collections occupy the lower floor of the wing of Coburn Hall. Some of the alcoholic and formalin material is placed in wall cases in the biological laboratories. The collections consist of a number of the larger mammals of the State; a small set of exotic mammals; a more complete working collection of native birds, birds' nests, and eggs; an illustrative collection of the other groups of vertebrates; a rather large collection of the shells of native and exotic molluscs; and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

BOTANICAL COLLECTIONS.—These collections are situated in rooms on the second and third floors of Coburn Hall. The herbarium includes several collections of considerable value, the most important of which is the one presented to the university by Mr. Jonathan G. Clark, of Bangor, and made by the late Rev. Joseph Blake. It contains more than 7,000 species of both flowering and flowerless plants, and represents more especially the flora of Maine and other New England states, but includes many forms from the western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algæ of the Maine coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticæ, Cummings and Seymour's North American Lichens, and a collection of economic seeds prepared by the United States Department of Agriculture.

Collections other than the herbarium include exhibits illustrating the manufacture of paper and of cocoa, the wood and bark features of the timber trees of Maine, conifers mounted in jars, plants used in pharmacy, commercial fibres, and artificial silk. A valuable collection of fossil plants was presented by the late Professor Harvey.

ART COLLECTION

The collection consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. Many of the large reproductions are framed and the entire collection has found a fitting home in the Library Building, the gallery of which is well adapted to the exhibition of many of the plaster-cast reliefs and the larger framed works. The collection is distributed on the first and second floors, in the large lecture room, and in a seminar room. In the latter is a specially constructed cabinet for the mounted photographs.

The entire collection numbers upwards of 4,000 reproductions of various sorts covering the fields of Classical and Renaissance architecture, sculpture, and painting. The illustrations for the Greek, Florentine, and Venetian schools are particularly representative. For much of the most important work the photographs are supplemented by lantern slides.

The university possesses many of the famous polychrome prints published by the Arundel Society. These and many other colored reproductions covering nearly all the great masters of Italian painting have been framed; and in the case of the *Madonna della sedia* and the *Sistine Madonna* the reproductions were imported in the frames which are stucco copies of the originals in Dresden and Florence.

The large lecture room in the Library Building contains examples of the work of the chief Florentine and Umbrian masters of the 14th and 15th centuries, arranged on the walls in historical sequences. The gallery of the second floor is devoted to masters of the High Renaissance.

For the study of Greek and Roman antiquity the departments of Greek and Latin have a large collection of photographs and lantern slides.

ORGANIZATIONS

AGRICULTURAL CLUB.—This organization is composed of students taking agricultural courses. Meetings are held throughout the college year, at which important agricultural topics are discussed by members of the club, and also by prominent speakers from this and other states.

AMERICAN CHEMICAL SOCIETY.—The Maine Section of the American Chemical Society has its headquarters at Orono. Some students in the department of Chemistry are members, and all are welcome to its meeting.

Organizations

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERING.—This is an organization for the promotion of the student's interest in electrical engineering work, and to keep him in touch with the latest developments in this branch of engineering activity. Membership in the branch is extended to members of the Electrical Engineering faculty, students pursuing the Electrical Engineering curriculum, and to members and associate members of the Institute.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—A regularly organized branch of this society holds regular meetings for the presentation and discussion of engineering papers by members and by visiting engineers.

UNIVERSITY OF MAINE SOCIETY OF CIVIL ENGINEERING.—This society is composed of the students who are enrolled in the curriculum in Civil Engineering. The object of the society is to investigate by reading and discussion the various engineering topics of the day. Monthly lectures are given under the direction of the society by members of the faculties of this and other institutions and by practicing engineers.

The affairs of the society are controlled by the students under the advice of the department.

CERCLE FRANÇAIS.—The object of the Cercle Français of the University of Maine is to cultivate the spoken French language and arouse and stimulate an interest in the intellectual life of France among the students of the University. The work is carried on in French. Papers are read and discussed and addresses delivered by the members. Plays are studied with a view toward production in French. The Cercle Français meets once in two weeks.

DEUTSCHER VEREIN.—This society, organized in 1902, is composed of teachers and students. Its purpose is to stimulate interest in the various phases of German life and literature and afford practice in speaking German. The number of members is limited. Meetings are held every three weeks during the academic year.

FORESTRY CLUB.—All students majoring in the curriculum in Forestry are eligible for membership in the Forestry Club. The purpose of the club is to give an opportunity for presenting informal discussions and technical papers on forestry subjects, and to promote cooperation and general good fellowship among the forestry students. The meetings are held monthly.

MAINE MASQUE.—This is a dramatic club which aims to make a practical study of the acted drama, and to present each year before the public one or more representative plays. Membership is determined by competitive trials to which all men undergraduates are eligible.

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SPEAKERS' CLUB.—A local honorary society, open to all students who acquire a sufficiently high standing in public debate and oratory. The object of the club is to promote interest in public speaking at the University. It is in active cooperation with the department of Public Speaking, and superintends some of the minor activities in oratory and debate.

CHRISTIAN ASSOCIATION.—The Christian Association, composed of men students, has for its object the promotion of Christian fellowship and aggressive Christian work. Religious services are held in the Chapel every Sunday and classes for the study of the Bible are conducted during the week.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION.—This is an organization for religious work composed of women students.

ALPHA CHI SIGMA.—Alpha Chi Sigma is a professional fraternity with chapters in various American colleges and universities. The members are elected from those whose major work is in the department of Chemistry.

ALPHA ZETA.—The Maine chapter of Alpha Zeta, the national agricultural fraternity, was organized at the University in 1905. Chapters exist in fourteen other universities. Membership is honorary and is restricted to students attaining high class standing or to graduates who have shown marked ability along the lines of agricultural study and research.

PHI KAPPA PHI.—The Phi Kappa Phi is an honorary society. Early in the fall semester of the senior year the seven members of the class having the highest standing are elected members, and during the spring semester the ten next highest may be elected, two of whom are from the College of Law.

SIGMA DELTA CHI.—This is an honorary fraternity open to sophomores, juniors, and seniors who have shown unusual ability in the various courses in journalism, and who propose to enter upon journalism as a profession.

TAU BETA PI.—Tau Beta Pi is an honor fraternity for engineers and has chapters in leading universities and technical schools. Elections to the fraternity take place twice a year, and are made from those juniors and seniors in engineering who have shown high mental and moral qualifications.

UNIVERSITY PUBLICATIONS

ANNUAL REPORT.—The report includes an account of the general affairs and interests of the University for the year.

UNIVERSITY OF MAINE STUDIES.—These are occasional publications containing reports of investigations or researches made by university officers or alumni.

MAINE BULLETIN.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public. Among recent issues are bulletins relating to the Classical Curriculum, the College of Agriculture, the Curriculum in Pharmacy, the College of Law, the College of Arts and Sciences, the College of Technology, the Curriculum in Forestry, the Courses in Education, the Summer Term, and an Alumni Directory.

ANNUAL REPORT OF THE AGRICULTURAL EXPERIMENT STATION AND THE AGRICULTURAL EXPERIMENT STATION BULLETINS.—These give complete results of the work of investigation of the station. The Bulletins and Official Inspections are sent free on request to any resident of Maine.

OFFICIAL INSPECTIONS.—These are published by the Agricultural Experiment Station, and contain the result of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides, and insecticides.

MAINE CAMPUS.—This is a journal published weekly during the academic year by an association of the students.

PRISM.—The Prism is an illustrated annual, published by the junior class.

PRACTICAL HUSBANDRY.—This is a quarterly magazine published under the direction of the Agricultural Club. It is devoted to practical and technical agriculture.

MAINE LAW REVIEW.—This is a magazine published under the direction of the students of the College of Law. It is devoted to a discussion of law cases and other current legal problems.

PUBLIC WORSHIP

Short exercises are held in the chapel every day except Saturday and Sunday. All undergraduate students are required to be present. Students receive a cordial welcome at all services in the churches of Orono. Voluntary religious services are held each week under the direction of the Christian Association and the Young Women's Christian Association.

University of Maine

GENERAL INFORMATION

It is assumed that all students entering the university are willing to subscribe to the following: *A student is expected to show both within and without the university respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens and gentlemen.*

Special information in regard to rules and regulations may be obtained from the Registrar.

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of eighteen hours in the College of Arts and Sciences, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Agriculture and the College of Technology. In the application of this rule, two to three hours of laboratory work count as one hour.

Each student is expected to be present at every college exercise for which he is registered, including each chapel exercise.

SCHOLARSHIP HONORS

Scholarship honors are awarded to students who attain an average grade of B, or above, thruout their course. The names of students winning these honors are printed on the Commencement program and in the catalog.

DEGREES

BACHELORS' DEGREES

The degree of Bachelor of Arts (B. A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences. These students are required to fulfil the proper entrance conditions and to obtain at least six credits in the department in which their major work lies.

The degree of Bachelor of Science (B. S.) in the curriculum pursued is conferred upon students who complete the prescribed work of four years in the Colleges of Agriculture or Technology.

The degree of Bachelor of Pedagogy (B. Pd.) is conferred upon students in the College of Arts and Sciences who have completed a course in an approved high school, a course in a normal school, and two years under prescribed conditions at the university.

Degrees

The degree of Bachelor of Laws (LL. B.) is conferred upon students who complete the prescribed work in the College of Law.

The degree of Pharmaceutical Chemist (Ph. C.) is conferred upon students who complete the two-year Pharmacy curriculum.

Beginning with the entering class of 1914, the degree of Graduate in Pharmacy (Ph. G.) will be conferred upon students completing the prescribed two years curriculum. The entrance requirements for this curriculum will be raised gradually from two years of high school work now required to a complete high school course, by 1919. As soon as proper courses can be provided, a three years curriculum in Pharmacy will be established, leading to the degree of Pharmaceutical Chemist (Ph. C.) requiring for entrance the completion of a four years high school course.

A minimum residence of one year is required for the attainment of any Bachelor's degree.

ADVANCED DEGREES

Graduate students, whether candidates for a degree or not, are required to register at the office of the university at the beginning of each semester. Those entering the university after that date must obtain the consent of the committee on graduate study before they can count a full year's work.

Candidates for the degree of Master of Arts, Master of Science, or Master of Laws must have received the corresponding bachelor's degree from this institution, or from one granting a fully equivalent degree.

At least one year must elapse between the conferring of the bachelor's and the master's degree.

No work done before the recommending of the bachelor's degree shall be counted toward the master's degree.

The candidate shall devote at least one year to graduate resident study and shall complete work amounting to fifteen hours per week thruout a college year.

The courses of study for each candidate must be approved by the committee on graduate study not later than the fourth week of the semester.

A registration fee of \$5 is charged, and an additional fee of \$15 for examinations and diploma is payable upon the completion of the work. One registration fee only is required of graduate students.

The curriculum shall include work in one major department or subject in which the candidate has already pursued undergraduate study

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for at least two years, and work in not more than two minor subjects which bears a distinct relation to the general plan or purpose of the major subject.

At least three fifths of the work must be done in the major subject. In special cases all the work may be done in one department.

All of the work must be of advanced character and must be tested by examinations which the candidate shall pass with distinction.

The candidate shall prepare as a part of his curriculum a satisfactory thesis on some topic connected with the major subject. These must be deposited with the Dean of the University not later than 12 M., Monday, of the week preceding Commencement.

At the end of the course of study for the master's degree, the candidate will be required to pass an oral examination covering his work, including the thesis work. This examination shall be open to all voting members of the faculty of the university. The time for such examinations will be arranged by the Dean of the University to accord, so far as possible, with the convenience of the candidate and the major instructor, between the dates of May 15 and June 1; but no student will be admitted to an oral examination until his thesis has been accepted. On May 15, the Dean of the University will notify the heads of all departments of the university of the dates set for the public oral examinations of all candidates of the year. While the examination will in each case, as a matter of course, be conducted chiefly by the members of the department in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate. The committee on graduate study will be represented at each examination.

The professional degrees of Chemical Engineer (Ch. E.), Civil Engineer (C. E.), Electrical Engineer (E. E.), and Mechanical Engineering (M. E.) may be conferred upon graduates in the curricula in Chemistry or Chemical Engineering, Electrical Engineering, and Mechanical Engineering respectively, upon the presentation of satisfactory theses, after at least three years of professional work subsequent to graduation. During at least two of the years after graduation the candidate must have occupied a position of responsibility. A fee of \$5.00 is required at the time of registration. A fee of \$10.00 is required payable upon presentation of the thesis, which must be submitted not later than Monday of the week preceding Commencement. Candidates are expected to be present in person to receive their degrees.

Expenses

THESES

Theses shall be printed, or typewritten in black record, unless the subject matter prevents, and the paper used shall be a standard thesis paper, 8 x 10 1-2 inches, which may be procured at the University Store. Care should be taken to have a margin of one inch on the inner edge, at least one-half on the outer edge, one and one-half inches at the top, and one inch at the bottom of the page.

If drawings accompany the thesis, they may be bound in with the rest of the pages or placed in a pocket on the inside of the back cover; or if too many for this, they may be bound separately according to personal instructions of the head of the department.

An outline of all undergraduate theses must be passed to the major instructor before May 1.

Complete instructions may be found in a pamphlet entitled "Degrees and Theses."

STUDENT EXPENSES

The estimates are prepared upon the basis of students living in university halls.

ESTIMATE OF ANNUAL EXPENSES FOR MEN

	Students from within the State		Students from without the State	
Registration	\$10 00		\$10 00	
Incidentals	20 00		20 00	
Tuition	30 00	to \$40 00	100 00	
Laboratory fees	10 00	to 25 00	10 00	to \$25 00
Text-books	10 00	to 30 00	10 00	to 30 00
Board 36 weeks @ \$3.50	126 00		126 00	
Room in a dormitory ..	36 00	to 45 00	36 00	to 45 00
	<hr/> \$242 00 to \$286 00		<hr/> \$312 00 to \$356 00	

ESTIMATE OF ANNUAL EXPENSES FOR WOMEN

The expenses for women are the same as for men, except that the annual charge for board and room is uniformly \$170.00.

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EXCEPTIONS

By legislative enactment, students in agricultural and home economics curricula are exempted from the payment of tuition charges. This applies only to students from within the State. For such students the above estimates should be reduced by an amount equal to the tuition charge.

DETAILS OF LABORATORY FEES

The laboratory charges indicated above are made to cover cost of material used by the students. These charges vary with the subject and length of the course. They are as follows: Agronomy, per course \$1.00 to \$1.50; Animal Industry, per course, \$1.00 to \$4.00; Bacteriology, per course, \$3.00; Biological Chemistry, per course, \$3.00 to \$4.00; Biology, per course, \$2.00 to \$3.00; Chemistry, per course, \$2.00 to \$5.00; Civil Engineering, per course, \$2.00 to \$5.00; Electrical Engineering, per course, \$2.50; Home Economics from \$1.00 to \$12.00 per semester; Horticulture, per course, \$1.00 to \$2.00; Mechanical Engineering, per course, \$2.00; Mineralogy, per course, \$2.00; Pharmacy, per semester, about \$5.00; Physics, per course, \$2.50 to \$3.50; Shop Work, per course, \$4.00 to \$5.00.

SPECIAL CHARGES

A fee of \$2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of two dollars.

DORMITORY ROOMS

The rooms in the Mt. Vernon House, Balentine Hall, Oak Hall, North Hall, and the middle section of Hannibal Hamlin Hall accommodate two students each. All other rooms accommodate four students each.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories for men are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in a dormitory has bed linen and three towels laundered each week without extra charge.

Women students not living at home are required to live in one of the women's dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the President. To

Expenses

secure the reservation of a room in a university dormitory, application, accompanied by a deposit of \$5.00, should be made on or before September 1.

Students in the College of Law may obtain board and room in Bangor at prices ranging from \$5.00 to \$7.00 per week.

DEPOSITS TO COVER EXPENSES (FOR EACH SEMESTER)

Each student on or before registration day is required to make a deposit in accordance with the following table:

	Students from within the State	Students from without the State
Students in Agriculture	\$100 00	\$150 00
Students in Forestry	100 00	150 00
Students in Home Economics...	100 00	150 00
Students in Arts and Sciences..	115 00	150 00
Students in Technology	115 00	150 00
Students in Law	35 00	65 00

For a student not living in a university dormitory the above deposits are reduced by \$80.00, except in the College of Law.

COMMUNICATIONS

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

BLANKET TAX

Students generally contribute \$11.00 annually to the support of athletics and the Maine Campus. This is not a university requirement, but is wholly voluntary.

KITTRIDGE LOAN FUND

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittridge, of Bangor. It is in the control of the President and the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. In the deed of gift it was prescribed that no security but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest be paid promptly, and that the principal be returned from the first earnings after graduation. Individual loans are limited to \$50.00.

SCHOLARSHIPS AND PRIZES

THE KIDDER SCHOLARSHIP, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the university of the class of 1879, and is awarded to a member of the junior class to be selected by the President and the faculty.

NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP, thirty dollars, is awarded upon conditions to be determined by the Board of Trustees. It has for some years been awarded to the student who excelled in debate.

PITTSBURG ALUMNI ASSOCIATION SCHOLARSHIP, tuition for one year, is awarded to a member of the junior class in the College of Technology, to be selected by the President and the professors in that college.

WESTERN ALUMNI ASSOCIATION SCHOLARSHIP, tuition for the sophomore year, is awarded a student pursuing a regular curriculum whose deportment is satisfactory and who makes good progress in his studies during his freshman year.

THE ELIZABETH ABBOTT VALENTINE SCHOLARSHIP was endowed by the Gamma chapter of Alpha Omicron Pi for a woman member of the sophomore class to be determined by the President and the faculty. This scholarship will be at least thirty dollars. Both scholarship and the individual need are to be considered in the award.

JUNIOR EXHIBITION PRIZES of fifteen dollars each are awarded to the members of the junior class who deliver the best orations at the junior exhibition. One prize is awarded to the man receiving the first rank in competition with the men of the junior class, and one prize awarded to the woman receiving first rank in competition with the women of the junior class. In the award of these prizes regard is given to thought, style, and delivery. Copies of these orations must be deposited with the Registrar before February 1.

SOPHOMORE ESSAY PRIZES, two of fifteen dollars each, one for men and one for women, are awarded to members of the sophomore class for excellence in composition. These essays must be presented by May 1.

CLARENCE P. KING PRIZE, twenty-five dollars, the gift of Mr. Clarence P. King, of Washington, D. C., is awarded to that member of the senior and junior classes who delivers the best original oration.

Scholarship and prizes

WALTER BALENTINE PRIZE, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., LL. D., Geneva, N. Y., a graduate of the university of the class of 1875, is awarded to that member of the junior class who excels in biological chemistry.

KENNEBEC COUNTY PRIZE, twenty-five dollars, the gift of the Hon. William T. Haines, LL. D., Waterville, a graduate of the university of the class of 1876, is awarded to that member of the senior class who writes the best thesis on applied electricity.

FRANKLIN DANFORTH PRIZE, ten dollars, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the university of the class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in an agricultural curriculum who attains the highest standing.

FATHER HARRINGTON PRIZE, twenty dollars, established by Rev. John M. Harrington, pastor of St. Mary's Church, Orono, is given to that student who writes the best essay upon modern literature. It may treat of German, English, French, Spanish, or Italian literature. The essay may be limited to any one of these literatures or to a comparative study of any number of them. This is open to any student in the university.

These essays must be deposited with the Registrar before May 1.

PHARMACY PRIZE, five dollars, is awarded to that student in the Pharmacy department who attains the highest standing in chemistry in the last year of his course.

HOLT PRIZES, the gift of Dr. Erastus Eugene Holt, of Portland, are given to the three students of the senior class who show the greatest improvement in their physical rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body devised by Dr. Holt.

AMERICAN PHARMACEUTICAL ASSOCIATION PRIZE, membership for one year in the association, is awarded by the faculty to the member of the senior class in Pharmacy who has made the best record in his college course.

THE AMERICAN LAW BOOK COMPANY PRIZE, consisting of a complete set of "Cyc" with annual annotations to date, is given to the student in the College of Law who shall take the highest scholarship honor for the period of his senior year. The method of award is left to the faculty of the College of Law.

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THE CALLAGHAN AND COMPANY PRIZE, consisting of the Cyclopedic Law Dictionary, is given to the student in the College of Law who has obtained the highest general average for his junior year.

CLASS OF 1908 COMMENCEMENT CUP is awarded each year to the class having the largest percentage of its membership present at Commencement.

FRATERNITY COMMENCEMENT CUP is awarded to the fraternity, the largest percentage of whose alumni register during commencement week.

FRATERNITY SCHOLARSHIP CUP, presented to the university by the 1910 Senior Skull Society, is awarded at Commencement to that fraternity having the highest standing in scholarship for the preceding calendar year. The cup is to be awarded for eleven years, 1910 to 1920 inclusive. The fraternity to which this cup is awarded the greatest number of times is to be the permanent owner of the cup.

JUNIOR MASK CUP, presented by the Junior Mask Society, is awarded at Commencement to the fraternity whose freshman delegation has the highest standing in scholarship for the first semester.

WINGARD CUP, the gift of Professor Edgar R. Wingard, is awarded to that student who has won his "M" in athletics and who has made the greatest improvement in his studies during the year.

ADMISSION

GENERAL REQUIREMENTS.—Candidates for admission should apply to the Registrar for an application card. They must present satisfactory certificates of fitness, or pass the required examinations, and make a cash deposit covering the bills of one semester. In the College of Law the fees must be paid in advance and no additional deposit is required. The university admits men and women, both residents of Maine and non-residents.

ADMISSION TO ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they wish to enter, or in other equivalent studies. A rank of B must be attained in order to pass any course without class attendance. Certificates from approved schools are accepted for the preparatory work; but certificates are not accepted for any part of the college work, unless such work has been done in a college. Students transferring from another college must present a letter of honorable dismissal.

Admission

SPECIAL STUDENTS.—Persons 21 years of age, not candidates for a degree, may be admitted as special students if they give satisfactory evidence that they are prepared to take the desired subjects.

ADMISSION TO SHORT COURSES

Candidates for the two years **CURRICULUM IN PHARMACY** must be at least seventeen years of age, and must have successfully completed at least two years in an approved high school. Such candidates must offer three years of high school work in the fall of 1916, and four years in 1919 and thereafter.

Candidates for the two years **COURSE IN HOME ECONOMICS** must be graduates of a recognized high school or its equivalent, and they should have some practical knowledge of housework.

Candidates for admission to the two years **SCHOOL COURSE IN AGRICULTURE** must be over fifteen years of age and prepared for advanced grammar or high school work.

ADMISSION BY EXAMINATIONS

Entrance examinations are held at Orono, beginning four days before the opening of the fall semester, and on the Wednesday, Thursday, Friday, and Saturday preceding Commencement. To save expense to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on the days appointed in June. If possible, these examinations should be in charge of the principal of the school. Papers will not be sent at any other time. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the university immediately, accompanied by the endorsement of the examiner. The examination must be given on the days appointed in the schedule. Applications for such examinations must be made out on blanks to be obtained from the Registrar. Candidates for admission by examination, particularly those examined at Orono in September, should present statements from their school principals regarding their fitness to take the examinations and to undertake college work.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held during the week June 12-17, 1916. All applications for these examinations must be addressed to the Secretary of the College Entrance Exami-

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nation Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the university may receive credit for such examination, provided he has completed not less than one-half of his preparatory work. It is advised that candidates avail themselves of this privilege as far as possible. Examinations on subjects which are to be continued in college should not be taken more than one year in advance.

ADMISSION OF GRADUATES FROM CLASS A SCHOOLS IN MAINE

Graduates from Maine high schools and academies placed by the State Superintendent of Schools in Class A may be admitted upon their school records, provided they have pursued a course of study including all the subjects required for admission to the curriculum that they propose to follow and a sufficient number of the elective subjects to make a total of fourteen and a half units.

The school record of the candidate must be certified by the principal, upon blanks furnished by the university, and should be submitted before August 1.

ADMISSION BY CERTIFICATE FROM SCHOOLS OUTSIDE OF MAINE

Principals of schools situated outside of Maine who desire the certificate privilege must make application to the Dean of the University, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request.

Certificates will not be accepted for non-graduates except in unusual cases, and then only provided the candidate is expressly recommended for admission by the principal of the high school from which he comes. Certificates must be made out on blanks furnished by the university.

ENTRANCE REQUIREMENTS

To gain admission to any of the curricula leading to the degree of Bachelor of Arts or Bachelor of Science, 14 1-2 units must be offered by the candidate, according to the following schedules (to count

Admission

one unit, a subject must be pursued for one school year, with five recitation periods a week):

COLLEGE OF ARTS AND SCIENCES

Required Subjects

Foreign languages	count	4	units
English	counts	3	"
History	"	1	unit
Mathematics	"	2½	units
<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>			
10½ units			

Not less than two units of any foreign language may be offered. Credit for advanced work will be accepted at the rate of one unit for each year of work.

Optional Subjects (4 units to be chosen)

Greek	counts	2 or 3	units
Latin	"	2, 3, or 4	"
French	"	2, 3, or 4	"
German	"	2, 3, or 4	"
Advanced algebra	"		½ unit
Solid geometry	"		½ "
Trigonometry	"		½ "
Chemistry (including note-book)	"	I	"
Physics (including note-book)	"	I	"
Physiography (one-half or one year)	"	½ unit or I	"
Biology (including note-book)	"	I	"
Botany (including note-book)	"	I	"
Zoology (including note-book)	"	I	"
Physiology	"		½ "
Ancient history (I year)	"	I	"
English history (I year)	"	I	"
American history and civil government (I year)	"	I	"
Medieval and modern history	"	I	"

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COLLEGES OF AGRICULTURE AND TECHNOLOGY

Required Subjects

English	counts 3	units
*Algebra	" 1½	"
Plane geometry	" 1	unit
Solid geometry (College of Technology except Pharmacy)	" ½	"
Foreign languages (two years of one language)	" 2	units
Sciences	" 1	unit
History	" 1	"

9½ or 10 units

Optional Subjects (4 1-2 or 5 units to be chosen)

Each year of French	counts 1	unit
" " " German	" 1	"
" " " Latin	" 1	"
" " " Greek	" 1	"
Advanced algebra	" ½	"
Trigonometry	" ½	"
†Mechanical drawing	" ½	"
†Manual training	" ½	"
Chemistry (including note-book)	" 1	"
Physics (including note-book)	" 1	"
Physiography (one-half year or one year)	counts ½ unit or 1	"
Biology (including note-book)	counts 1	"
Botany (including note-book)	" 1	"
Zoology (including note-book)	" 1	"
Physiology	" ½	"
Roman history	" ½	"

* Candidates who have had two full years of algebra, including a review during the last year, and the use of an advanced text-book, may receive credit of two units. Such a course is recommended for those who wish to pursue a curriculum in engineering or chemistry.

† Graduates from high schools giving a full manual training course may receive credit for mechanical drawing, manual training, and free-hand drawing, on the basis of one-half unit for five forty-five minute periods per week for one year in one subject taken in the high school.

Admission

Greek history	counts	$\frac{1}{2}$	unit
English history	"	$\frac{1}{2}$ or 1	"
American history and civil government	"	$\frac{1}{2}$ " 1	"

Candidates for admission to any curriculum, who are well prepared in all the required subjects, but whose high school course has included studies other than the electives mentioned above, will be allowed to substitute such as will furnish a real equivalent. Each case of proposed substitution will be considered upon its merits.

Credit for industrial and commercial subjects may be given at the discretion of the committee on admission. The total credit for these subjects will be limited to four units for admission to the Colleges of Agriculture and Technology, and to two units for the College of Arts and Sciences.

The requirement in history will be satisfied by a year of Greek and Roman history, or a year of English history, or a year of medieval and modern history, or a year of American history and civil government. A choice will be allowed between the last half year of algebra and solid geometry for those who do not expect to continue mathematics in college.

COLLEGE OF LAW

This college admits college graduates and such graduates of secondary institutions as are able to present fourteen and one-half units obtained in an approved school.

REQUIREMENTS IN DETAIL

The following statement shows in detail the requirements in each subject:

Languages

ENGLISH.—The entrance examination in English presupposes courses in composition and English literature pursued in the high school during four years. Prospective students are warned against attempting to prepare the required work in one year. Progress in composition particularly is of slow growth and requires almost daily cultivation during a long period of time. Books, to be thoroly enjoyed and appreciated, should be read leisurely and under favorable circumstances.

Rhetoric.—Candidates are expected to have had practice in composition for at least three days a week during the whole four years of the

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high school, and to have included in the latter part of their course such work in the elements of rhetoric as, for example, is contained in Carpenter's *Rhetoric and Composition*.

Grammar.—The examination will include questions on the syntax of sentences, and on general grammatical principles.

Weight of Composition.—The examination is mainly designed to test the candidate's ability to express his thought correctly and clearly. It is quite possible to answer all questions on the literature correctly, and yet fail on the examination as a whole because of crude and ungrammatical English. Prospective candidates are advised to give especial attention to spelling, punctuation, grammatical correctness, idiomatic words and phrases, sentence and paragraph formation.

Subjects.—The subjects for the short compositions will be taken from the A list of books; also from the candidate's general knowledge and experience.

The prescribed books are those adopted by the Conference on Uniform Entrance Requirements. The A list is for general reading; the B list is for study. The candidate is not expected to have a detailed knowledge of these books, but such acquaintance with them as naturally follows intelligent and appreciative reading. Two books are to be selected from each group.

Books in the A List

GROUP I

(For any unit of this group a unit from any other group may be substituted) Old Testament—Comprising the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. Homer—The *Odyssey*, (English translation) with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; The *Iliad*, (English translation) with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI. Vergil—*Æneid* (English translation).

GROUP II

Shakespeare—*Merchant of Venice*, *Midsummer-Night's Dream*, *As You Like It*, *Twelfth Night*, *King Henry V*, *Julius Cæsar*.

Admission

GROUP III

Defoe—Robinson Crusoe, Part I. Goldsmith—The Vicar of Wakefield. Scott—Ivanhoe or Quentin Durward. Hawthorne—The House of the Seven Gables. Dickens—David Copperfield or A Tale of Two Cities. Thackeray—Henry Esmond. Gaskell—Cranford. Eliot—Silas Marner. Stevenson—Treasure Island.

GROUP IV

Bunyan—Pilgrim's Progress, Part I. Addison, Steele, and Budgell—The Sir Roger de Coverley Papers in "The Spectator." Franklin—Autobiography. Irving—Sketch-Book. Macaulay—Essays on Lord Clive and Warren Hastings. Thackeray—English Humorists. Lincoln—Selections from, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate. Parkman—The Oregon Trail. Thoreau—Walden. Huxley—Autobiography and Selections from Lay Sermons, including the Addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk. Stevenson—An Inland Voyage, and Travels with a Donkey.

GROUP V

Palgrave—Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns. Gray—An Elegy in a Country Churchyard, and Goldsmith—The Deserted Village, combined. Coleridge—The Rime of the Ancient Mariner, and Lowell—The Vision of Sir Launfal, combined. Scott—The Lady of the Lake. Byron—Childe Harold, Canto IV, and the Prisoner of Chillon. Palgrave—Golden Treasury (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley. Poe—The Raven; Longfellow—The Courtship of Miles Standish, and Whittier—Snow Bound, combined. Macaulay—Lays of Ancient Rome, and Arnold—Sohrab and Rustum, combined. Tennyson—Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur. Browning—Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa, Down in the City.

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Books in the B List

Shakespeare's *Macbeth*, Milton's *Comus*, L'Allegro, and *Il Penseroso*. Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address*, and Webster's *First Bunker Hill Oration*. Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

FRENCH.—The admission requirements in elementary and intermediate French are those recommended by the Modern Language Association of America.

I. Elementary French.—At the end of the second year the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

The first year's work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles, and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; order of words in the sentences, and elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in memory the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (4) the reading of 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variation of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

The second year's work should comprise: (1) the reading of 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Admission

Suitable texts for the second year are: About, *le Roi des montagnes*; Bruno, *le Tour de la France*; Daudet, *Easier Short Tales*; De la Bédollière, *La Mère Michel et son chat*; Erckmann-Chatrian's Stories; Foa, *Contes biographiques* and *le Petit Robinson de Paris*; Foncin, *le Pays de France*; Labiche and Martin, *la Poudre aux yeux* and *le Voyage de M. Perrichon*; Legouvé and Labiche, *la Cigale chez les fourmis*; Malot, *Sans Famille*; Mairét, *la Tâche du petit Pierre*; Mérimée, *Colomba*; Extracts from Michelet; Sarcey, *le Siège de Paris*; Verne's Stories.

II. *Intermediate French*.—At the end of the third year the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

This should comprise the reading of 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate proportions; writing from dictation.

Suitable texts are: About's Stories; Augier and Sandeau, *le Gendre de M. Poirier*; Béranger's Poems; Corneille, *le Cid* and *Horace*; Coppée's Poems; Daudet, *la Belle Nivernaise*; La Brète, *Mon oncle et mon curé*; Madame de Sévigné's Letters; Hugo, *Hernani* and *la Chute*; Labiche's Plays; Loti, *Pêcheur d'Islande*; Mignet's Historical Writings; Molière, *l'Avare* and *le Bourgeois gentilhomme*; Racine, *Athalie*, *Andromaque*, and *Esther*; George Sand's Plays and Stories; Sandeau, *Mademoiselle de la Seiglière*; Scribe's plays; Thierry, *Récits*; Vigny, *la Canne de jonc*; Voltaire's Historical Writings.

At the end of the fourth year the pupils should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose, and to carry on a simple conversation in French.

This should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

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Suitable reading matter will be: Beaumarchais's *Barbier de Séville*; Corneille's Dramas; the elder Dumas's Prose Writings; the younger Dumas's *la Question d'argent*; Hugo, *Ruy Blas*, Lyrics, and Prose Writings; La Fontaine's Fables; Lamartine, *Graziella*; Marivaux's Plays; Molière's Plays; Musset's Plays and Poems; Pellissier, *Mouvement littéraire au XIX siècle*; Renan, *Souvenirs d'enfance et de jeunesse*; Rousseau's Writings; Sante-Beuve's Essays; Taine, *Origines de la France contemporaine*; Voltaire's Writings; Selections from Zola, Maupassant, and Balzac.

The examination of the College Entrance Certificate Board in elementary French will be accepted for two units, and that in intermediate French for two additional units.

GERMAN.—The admission requirements in elementary and advanced German are those recommended by the Modern Language Association of America.

I. Elementary German.—The first year's work should comprise: (1) careful drill upon pronunciation; (2) memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar; that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more unusual strong verbs; also in the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (5) the reading of 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in reproducing from memory sentences previously read.

The second year's work should comprise: (1) the reading of 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in translating into German easy variations upon the matter read, also in the off-hand reproductions, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill in the rudiments of grammar, to enable the pupil first, to use his knowledge with facility in forming sentences, and second, to state his knowledge correctly in the technical language of grammar.

Admission

Stories suitable for the elementary course can be selected from the following list: Anderson, *Märchen* and *Bilderbuch ohne Bilder*; Baumbach, *Die Nonna* and *Der Schwiegersohn*; Gerstäcker, *Germelshausen*; Heyse, *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern, *Höher als die Kirche*; Jensen, *Die braune Erica*; Leander, *Träumereien* and *Kleine Geschichten*; Seidel, *Märchen*; Stokl, *Unter dem Christbaum*; Storm, *Immensee* and *Geschichten aus der Tonne*; Zschokke, *Der zerbrochene Krug*.

The best shorter plays available are: Benedix, *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz, *Er ist nicht eifersüchtig*; Wichert, *An der Majorsecke*; Wilhelmi, *Einer muss heiraten*. Only one of these plays need be read, and the narrative style should predominate. A good selection of reading matter for the second year would be Anderson, *Märchen* or *Bilderbuch*, or Leander, *Träumereien*, to the extent of about forty pages. Afterward, such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; last *Der Prozess*.

II. *Advanced German*.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill in the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with especial reference to the infinitive and subjunctive), and likewise in word order and word formation. To do this work two school years are usually required.

Suitable reading matter for the third year may be selected from such work as the following: Ebner-Eschenbach, *Die Freiherren von Gemperlein*; Freytag, *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*; Karl der Grosse, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué, *Undine*; Gerstäcker, *Irrfahrten*; Goethe, *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffman, *Historische Erzählungen*; Lessing, *Minna von Barnhelm*; Meyer, *Gustav Adolfs Page*; Moser, *Der Bibliothekar*; Riehl, *Novellen*, *Burg Neideck*, *Der Fluch der Schönheit*, *Der Stumme Ratsherr*, *Das Spielmannskind*; Rosegger, *Waldheimat*; Schiller, *Der Neffe als Onkel*, *Der Geisterscher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel, *Der Trom-*

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peter von Säkkingen; Uhland's poems; Wildenbruch, *Das edle Blut*. A good selection would be: (1) one of Riehl's novelettes; (2) one of Freytag's "pictures;" (3) part of *Undine* or *Der Geisterscher*; (4) a short course of reading in lyrics and ballads; (5) a classical play by Schiller, Lessing, or Goethe.

The examinations of the College Entrance Certificate Board in elementary German will be accepted for two units, and that in advanced German for one additional unit.

SPANISH.—The admission requirements in Spanish are those of the College Entrance Examination Board.

Elementary Spanish.—At the end of the second year of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as indicated below.

The first year's work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the careful reading and accurate rendering into good English of about 100 pages of easy prose and verse, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

The second year's work should comprise: (1) The reading of about 200 pages of prose and verse; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the modes and tenses; (5) writing Spanish from dictation; (6) memorizing of easy short poems.

The emphasis should be placed on careful thoro work with much repetition rather than upon rapid reading. The reading should be selected from the following: A collection of easy short stories and lyrics, carefully graded; Juan Valera, *El pájaro verde*; Pérez Escrich, *Fortuna*; Ramos Carrión and Vital Aza; *Zaragüeta*; Palacio Valdés, *José*; Pedro de Alarcón, *El Capitán Veneno*; the selected short stories of Pedro de Alarcón or Antonio de Trueba.

Admission

LATIN.—The entrance examination in Latin will consist of four parts, as follows:

1. An examination on the elements of Latin grammar and easy translations.

2a. An examination in sight translation of Latin prose suited to test the ability of a candidate who has read from Cæsar (Gallic War and Civil War) and Nepos (Lives) an amount not less than Cæsar, Gallic War, I-IV.

b. Questions on the ordinary forms and constructions of Latin grammar and the translation of easy English sentences into Latin.

3a. An examination on Cicero, speeches for the Manilian Law and for Archias, with questions on subject-matter, literary and historical allusions, and grammar.

b. An examination in sight translation of Latin prose adapted to candidates who have read from Cicero (speeches, letters, and De Senectute) and Sallust (Catiline and Jugurthine War) an amount not less than Cicero, speeches against Catiline I-IV, for the Manilian Law, and for Archias.

c. A test in writing simple Latin prose which shall demand a thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school.

4a. An examination on Vergil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject matter, literary and historical allusions, and prosody.

b. An examination in sight translation of Latin poetry adapted to candidates who have read from Vergil (*Bucolics*, *Georgics*, and *Æneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*) an amount not less than Vergil, *Æneid*, I-VI.

A candidate may obtain separate credit for each part except in the College of Arts and Sciences. Each represents a year's work and entrance credit for one unit.

In parts 2 and 3 candidates must deal satisfactorily with both the sight and set passages, or they will not be given credit for either.

GREEK.—The grammar, including prosody; Xenophon's *Anabasis*, books I-IV; Homer's *Iliad*, books I-III; the sight translation of easy passages from Xenophon; the translation into Greek of easy passages based on the required books of the *Anabasis*. For the last a vocabulary of less usual words will be furnished. Equivalent readings will be accepted in place of those prescribed.

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History

GREEK HISTORY.—History of Greece, to the capture of Corinth, 146 B. C.; Myers, Morey, or Botsford.

ROMAN HISTORY.—A knowledge of Roman history, down to the death of Marcus Aurelius, such as may be obtained from Allen's Short History of the Roman People, or from Myers's Rome: Its Rise and Fall, or from Morey's Outlines of Roman History.

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery, Coman and Kendall, Terry, or Cheyney's History of England.

UNITED STATES HISTORY AND CIVIL GOVERNMENT.—A knowledge such as may be obtained from the works of Fiske, Hart, Montgomery, or McLaughlin.

Mathematics

ALGEBRA.—The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and least common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that may be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils are required thruout the course to solve numerous problems which involve putting questions into equations. Some of the problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

PLANE GEOMETRY.—The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures;

Admission

the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

SOLID GEOMETRY.—The usual theorems and constructions of good textbooks, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

TRIGONOMETRY.—Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle; the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles, and practical applications, including the solution of right spherical triangles.

ADVANCED ALGEBRA.—Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

Sciences

***BIOLOGY.**—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

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*CHEMISTRY.—The necessary ground is covered by the following textbooks: Brownlee and others, Hessler and Smith, McPherson and Henderson, Newell.

PHYSICAL GEOGRAPHY (PHYSIOGRAPHY).—A satisfactory preparation may be obtained from either Appleton's or Tarr's Physical Geography.

*PHYSICS.—The work usually covered in one year in a good fitting school.

The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the board. The note-book should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

*The work in these sciences must include certified note-books exhibiting the results of experimental work performed by the student. In physics forty exercises are required and in chemistry fifty exercises. These note-books should be presented at the examination. In the case of students certified in the sciences, the principal is expected to pass upon the quality of the note-books rather than send them to the university.

ORGANIZATION OF THE UNIVERSITY

The university is divided for purposes of administration into the Colleges of Agriculture, Arts and Sciences, Law, and Technology, and the Maine Agricultural Experiment Station. The policies of the University as a unit are determined by the Board of Trustees and the General Faculty, but each division regulates those affairs which concern itself alone.

COLLEGE OF AGRICULTURE

Curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, Poultry Husbandry, and for Teachers of Agriculture

Two Years Course in Home Economics for Teachers; School Course in Agriculture (two years)

Short Courses; Farmers' Week; Correspondence and Lecture Courses; Demonstration Work

COLLEGE OF ARTS AND SCIENCES

Major subjects may be selected in Biology, Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, and Spanish and Italian

COLLEGE OF LAW

This College is located in Bangor

COLLEGE OF TECHNOLOGY

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Pharmacy

University of Maine

MAINE AGRICULTURAL EXPERIMENT STATION

Offices and principal laboratories in Orono; Highmoor Farm in Monmouth; Aroostook Farm at Presque Isle

GRADUATE COURSES leading to the Master's degree are offered by various departments

SUMMER TERM of six weeks

GENERAL STATEMENT

The college year is divided equally into a fall semester and a spring semester. Five recitation hours a week of successful work for one semester entitle a student to one unit. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week (exclusive of physical training and military science) leading to two and four-fifths units. In the College of Agriculture and the College of Technology the minimum is seventeen hours a week (exclusive of physical training and military science), leading to three and two fifths units. Six units in the major subject represent the minimum requirement for a degree.

COLLEGE OF AGRICULTURE

FACULTY OF INSTRUCTION

LEON STEPHEN MERRILL, M. D.

Director of Agricultural Extension Service

DEAN

LUCIUS HERBERT MERRILL, Sc. D.

Professor of Biological and Agricultural Chemistry

FREMONT LINCOLN RUSSELL, B. S., V. S.

Professor of Bacteriology and Veterinary Science

MINTIN ASBURY CHRYSLER, Ph. D. *Professor of Biology*

JOHN MANVERS BRISCOE, M. F. *Professor of Forestry*

GEORGE EDWARD SIMMONS, M. S. *Professor of Agronomy*

BLISS S BROWN, M. S. *Professor of Horticulture*

LAMERT SEYMOUR CORBETT, M. S.

Professor of Animal Industry

FRANCES ROWLAND FREEMAN, M. S.

Professor of Home Economics

EDSON FOBES HITCHINGS, C. E., M. S.

Associate Professor of Horticulture

ALICE MIDDLETON BORING, Ph. D.

Associate Professor of Zoology

HARRY NEWTON CONSER, M. S., M. A.

Assistant Professor of Botany

RALPH WOODBURY REDMAN, B. S.

Assistant Director of Agricultural Extension Service

HAROLD SCOTT OSLER, B. S. *Assistant Professor of Agronomy*

CARLETON WHIDDEN EATON, A. B., M. F.

Assistant Professor of Forestry

HARRY WOODBURY SMITH, B. S.

Assistant Professor of Bacteriology

College of Agriculture

FRANCES MARIE WHITCOMB, B. S.

Assistant Professor of Home Economics

CLARENCE WALLACE BARBER, M. S.

Extension Representative, Cumberland County

JOSEPH HENRY BODWELL, B. S.

Extension Representative, Piscataquis County

CLARENCE ALBERT DAY

Extension Representative, Washington County

ARTHUR LOWELL DEERING, B. S.

Extension Representative, Kennebec County

MAURICE DANIEL JONES, B. S.

Extension Representative, Penobscot County

WILSON MONTGOMERY MORSE, B. S.

Extension Representative, Franklin County

HAROLD HARLAN NASH

Extension Representative, York County

HAROLD JOSEPH SHAW

Extension Representative, Sagadahoc County

GEORGE NEWTON WORDEN, B. S.

Extension Representative, Cumberland County

GEORGE ALBERT YEATON

Extension Representative, Oxford County

PAUL WHEELER MONOHON, B. S.

Assistant State Leader, Farm Demonstration Work

RALPH PIKE MITCHELL

In charge of Boys' Agriculture Club Work

MARIE WILHELMINA GURDY, B. S.

In Charge of Girls Agriculture Club Work

WILLIAM COLLINS MONAHAN, B. S.

In Charge of Poultry Extension Work

JAMES EVERETT CHAPMAN, B. A., M. S.

Extension Instructor in Soils

CATHARINE NORTON PLATTS, B. S.

Extension Representative in Home Economics

DOROTHEA BEACH

Instructor in Home Economics

ALEXANDER LURIE, B. S.

Instructor in Horticulture

SIDNEY WINFIELD PATTERSON, B. S.

Instructor in Biological and Agricultural Chemistry

GLEN BLAINE RAMSEY, A. B.

Instructor in Biology

General Information

NEIL CARPENTER SHERWOOD, B. S.

Instructor in Animal Industry

WILBERT AMIE CLEMENS, PH. D.

Instructor in Biology

LAWRENCE VIVIAN JONES, LL. B.

Lecturer on Forestry Law

HELEN ANN KNIGHT, PH. B.

Instructor in Home Economics

ALTON WILLARD RICHARDSON, B. S.

Instructor in Animal Industry

STANLEY BEN SINK, B. Sc.

Instructor in Agronomy

J FRED THOMAS, B. S.

Instructor in Animal Industry

WILLIS CARL LANE, B. S.

Assistant in Biology

GENERAL INFORMATION

The College of Agriculture comprises the departments of Agricultural Extension, Agronomy, Animal Industry, Biological and Agricultural Chemistry, Biology, Farm Management and Agricultural Engineering, Forestry, Home Economics, Horticulture, Veterinary Science and Bacteriology. The aim of this college is to train young men for service as farmers, teachers of agriculture and the allied sciences in schools and colleges, investigators in agricultural experiment stations, and foresters; and to prepare young women to become teachers of home economics and to comprehend the problems of administration in the home and in public institutions. On entering either a four years curriculum or the two years School Course in Agriculture a student is required to fill out a practical experience blank. Those who have not had experience in general farming are required to work during at least one summer vacation on some farm approved by the faculty of the college.

The college curricula are designed for those who wish to follow general farming, animal husbandry, dairy husbandry, poultry husbandry, horticulture, home economics, chemistry as related to experiment station work, biological chemistry, bacteriology and veterinary science, biology, farm management, and forestry either as a business or as a profession.

One of the following curricula, embracing 150 college hours each, is required for the students taking a four years curriculum in the College of Agriculture.

The courses of instruction are organized as follows:

College of Agriculture

1. REGULAR CURRICULA

The four years general curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, and Poultry Husbandry, and the four years curriculum for Teachers in General Agriculture

2. SHORT COURSES

The two years Teachers' Course in Home Economics

The two years School Course in Agriculture

The short winter courses in General Agriculture, Dairying, Horticulture, and Poultry Management

Farmers' week

3. EXTENSION COURSES

The correspondence courses

The lecture courses

The traveling schools

CURRICULA IN AGRICULTURE

Certain studies are fundamental to all work in agricultural lines. As many as possible of these subjects are offered in the first two years, during which the student is necessarily given no choice of subjects. By the beginning of the junior year each student must decide whether he is to specialize in Agronomy, Animal Husbandry, Dairy Husbandry, Poultry Husbandry, Horticulture, or Biology. To specialize in any one of these lines, he must during his junior and senior years take the studies given in the schedules which follow.

Students in agriculture who contemplate entering experiment station work should elect the course offered by the department of agricultural chemistry covering the qualitative and quantitative chemical analysis of fodders, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

The elective subjects are selected with the advice of the major instructor.

The College Curricula

Curriculum for the First Two Years for All Students Taking Four Years Curricula in Agriculture

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 11, †4	2	Animal Industry 2	2
Chemistry 1 or 3	2	Animal Industry 4, †2	1
Chemistry 5, †4	2	Botany 2, 2 †4	4
Drawing 9, *3	1	Chemistry 2 or 4	3
Public Speaking 3	1	Chemistry 6, †4	2
English 7	2	Drawing 10, *3	1
Military 1, *3	1	Public Speaking	1
Modern Language	3	English 8	2
Zoology 1, 2 †4	4	Military 2, *3	1
Physical Training 1	½	Modern Language	2
		Physical Training 2	1

SOPHOMORE YEAR

Agronomy 1, 2 *3	3	Agronomy 12, 2 †2	3
Animal Industry 3	2	Biochemistry 2, 3 †4	5
Animal Industry 5, †2	1	Biology 8, 2 †4	4
Biochemistry 1	2	Horticulture 2, 2 *3	3
Biology 3	2	Mathematics 12	2
Chemistry 15, 2 †2	3	Military 2, *3	1
Mathematics 11	3	Poultry Husbandry 2, 1 †2	2
Military 1, *3	1		
Poultry Husbandry 1, 2 †2	3		

College of Agriculture

Curriculum for Students Specializing in Agronomy

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 13, 1 †2	2	Agricultural Chemistry 6	2
Animal Industry 7, 2 †4	4	Agronomy 14, 1 †2	2
Bacteriology 1, †6	3	Agronomy 16, 1 †2	2
Bacteriology 3	2	Agronomy 18	2
Biology 9, 2 †6	5	Animal Industry 6	2
English 17	2	Biology 10, 2 †6	5
Elective	2	English 18	2
		Elective	3

SENIOR YEAR

Agronomy 3	2	Farm Management 2, †4	2
Agronomy 15, 1 †2	2	Farm Management 72, 2 *3 ...	3
Farm Management 71, 2 *3 ...	3	Farm Management 74, 2 *3 ...	3
Elective	10	Elective	7

NOTE. Biology 18, Entomology, will be required of Seniors in 1915-16

Curricula for Students Specializing in Animal Industry

ANIMAL HUSBANDRY

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Industry 7, 2 †4	4	Agricultural Chemistry 6	2
Bacteriology 1, †6	3	Animal Industry 6	2
Bacteriology 3	2	Animal Industry 52, †2	1
Biology 51, 2 †4	4	Bacteriology 52, †6	3
English 17	2	Biology 52, 2 †4	4
Farm Management 71, 2 *3 ...	3	English 18	2
		Veterinary Science 14	3
		Veterinary Science 16	1

The College Curricula

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 3	2	Animal Industry 54	2
Animal Industry 53	2	Farm Management 2, †4	2
Veterinary Science 15	2	Farm Management 72, 2 *3 ...	3
Veterinary Science 17.....	1	Elective	11
Veterinary Science 19	2		
Elective	2		

NOTE. Biology 18, Entomology, will be required of Seniors in 1915-16

DAIRY HUSBANDRY

JUNIOR YEAR

Animal Industry 7, 2 †4	4	Agricultural Chemistry 6	2
Bacteriology 1, †6	3	Animal Industry 6	2
Bacteriology 3	2	Animal Industry 8, 1 *6	3
English 17	2	Bacteriology 52, †6	3
Farm Management 71, 2 *3 ...	3	English 18	2
Elective	4	Veterinary Science 14	3
		Veterinary Science 16	1
		Elective	3

SENIOR YEAR

Agronomy 3	2	Bacteriology 102, †4	2
Animal Industry 9, 2 *6	4	Farm Management 2, †4	2
Animal Industry 51	3	Farm Management 72, 2 *3 ...	3
Veterinary Science 15	2	Elective	10
Veterinary Science 17	1		
Elective	6		

College of Agriculture

POULTRY HUSBANDRY

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Industry 7, 2 †4	4	Agricultural Chemistry 6	2
Bacteriology 1, †6	3	Animal Industry 6	2
Bacteriology 3	2	Biology 52, 2 †4	4
Biology 51, 2 †4	4	English 18	2
English 17	2	Poultry Husbandry 4, 1 †2	3
Poultry Husbandry 3, 1 †2	2	Elective	7
Elective	2		

SENIOR YEAR

Agronomy 3	2	Farm Management 2, †4	2
Farm Management 71, 2 *3	3	Farm Management 72, 2 *3	3
Poultry Husbandry 5	2	Poultry Husbandry 6, 3 †2	4
Poultry Husbandry 7, 2 †2	3	Veterinary Science 12	2
Elective	7	Elective	6

NOTE. Biology 8, Entomology, will be required of Seniors in 1915-16

Curriculum in Horticulture

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Bacteriology 3	2	Agricultural Chemistry 6	2
Biology 9, 2 †3	5	Animal Industry 6	2
English 17	2	Bacteriology 2, †6	3
Horticulture 1, 2 †2	3	Biology 10, 2 †6	5
Horticulture 7, 2 †2	3	English 18	2
Horticulture 9, 2 †2	3	Horticulture 10	2
		Elective	2

The College Curricula

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 3	2	Farm Management 2, †4	2
Farm Management 71, 2 *3 ...	3	Horticulture 4, 2 †2	3
Horticulture 3, 2 †2	3	Horticulture 8, 2 †2	3
Horticulture 5, 2 †2	3	Horticulture 52	1
Horticulture 51	1	Elective	9
Elective	6		

NOTE. Biology 8, Entomology, will be required of Seniors in 1915-16

Curriculum in Biology

JUNIOR YEAR

Bacteriology 3	2	Bacteriology 2	3
English 17	2	English 18	2
Geology 5	3	Modern Language	2
Modern Language	3	Plant Pathology 66	}
Plant Histology 61	}	or	
or		Elective	}
Vertebrate Anatomy 51 ...	4	Animal Embryology 52 ...	
Elective	3	Plant Physiology 62	}
		or	
		Elective	4

SENIOR YEAR

Animal Physiology 53	}	Animal Embryology	}
or Plant Taxonomy		or	
and Morphology 63 ..	4	Plant Physiology	4
	4	Animal Histology 54	4
Biology Seminar	1	or Plant Pathology 66	3
Thesis or Elective	3	or Elective	4
Vertebrate Anatomy 51 ...	}	Biology Seminar	1
or		Thesis or Elective	3
Plant Histology 61	4	Elective	6
Elective	6½		

College of Agriculture

The Forestry Curriculum

A complete undergraduate curriculum is arranged which will serve as the basis not only for practical work in forestry, but also for a liberal education. During the first two years much attention is given to biology and civil engineering, both of which are important fundamental subjects upon which are built the technical forestry courses. A knowledge of the principles of forestry in its different branches is gained by the student, and considerable practical work is done in the forest. The woodlands belonging to the university, together with adjacent lands covered by young forest, furnish a field for the study of many forest problems. Field trips are made and demonstration thinnings and plantings made at various places thruout the State.

The instruction in this department consists of lectures, recitations, laboratory, and field work; the latter consumes a considerable portion of the scheduled time during the junior and senior years.

Curriculum in Forestry

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Botany 2, 2 †4	4
Chemistry 5, †4	2	Chemistry 2 or 4	3
Drawing 1, *6	2	Chemistry 6, †4	2
English 7	2	Drawing 2, *6	2
Mathematics 1 and 3	5	English 8	2
Military 1, *3	1	Mathematics 2	3
Zoology 1, 2 †4	4	Mathematics 4	2
Physical Training	$\frac{1}{2}$	Military 2, *3	1
		Physical Training	1

SOPHOMORE YEAR

Agronomy 1, 2 *3	3	Biology 8, 2 †4	4
Biology 67, 2 †4	4	Biology 68, 2 †4	4
Civil Engineering 1	2 $\frac{1}{2}$	Civil Engineering 2	1
Public Speaking 3	1	Civil Engineering 4	1
English 9	2	Public Speaking 4	1
History 9	3	English 10	2
Military 1, *3	1	Horticulture 2, 2 *3	3
Modern Language	3	Military 2, *3	1
		Modern Language	2

The College Curricula

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Biology 61, 2 †4	4	Biology 62 or 66	4 or 3
Civil Engineering 21	1	Civil Engineering 22	1
Civil Engineering 23	1	Civil Engineering 24	2
Civil Engineering 27	1	Forestry 6	2
Forestry 11	2	Forestry 8, *6	1
Forestry 13, *6	2	Forestry 10, *3	1
Geology 5	3	Modern Language	2
Horticulture 5, 2 †2	3	Physics 6	2
Modern Language	3	Electives	3

SENIOR YEAR

Biology 3	2	Biology 66 or 62	3 or 4
Forestry 1	1	Forestry 12	2
Forestry 3	1	Forestry 14, *6	2
Forestry 5	1	Forestry 16	2
Forestry 9	1	Forestry 18, *6	2
Forestry 15	2	Forestry 20	1
Forestry 17, *6	2	Forestry 22	1
Forestry 19	1	Elective	4
Forestry 21	3		
Elective	4		

Four Years Curriculum in Home Economics

This curriculum leads to the degree of Bachelor of Science. In addition to the prescribed studies, elective courses are offered for those who wish to teach.

Students desiring to follow this curriculum must meet the regular university requirements.

Laboratory fees are as follows: Courses 1, 2, 7, 8, 12, 13, each \$1 a semester. Courses 5, 6, 10, 11, each \$6 a semester. All materials for garment making must be provided by the students.

Students taking courses 5, 6, 10, and 11 are required to wear in the laboratory white tailored waists, high collars, washable ties, caps, shoes with rubber heels, and white aprons with bibs. They must also be provided with small white hand towels.

College of Agriculture

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2 or 4	3
Chemistry 5, 14	2	Chemistry 6, 14	2
English 7	2	English 8	2
History 7	3	History 8	3
Home Economics 1, 1 14	3	Home Economics 2, 1 14	3
Home Economics 3, 1 12	2	Home Economics 4, 1 12	2
Modern Language	3	Modern Language	2
Physical Training	$\frac{1}{2}$	Physical Training	1

SOPHOMORE YEAR

Art 3	2	Art 4	2
Chemistry 15, 2 12	3	Botany 2, 2 14	4
Elementary Physiology 5, 2 14	4	English 30	3
English 29	3	Food Analysis 8, 1 16	4
Home Economics 5, 2 14	4	Home Economics 6, 2 14	4
Modern Language	3	Modern Language	2
Physical Training	$\frac{1}{2}$	Physical Training	1

JUNIOR YEAR

Bacteriology 1, 16	3	Home Economics 8, 2 14	4
Bacteriology 3	2	Home Economics 10, 3 14 ...	5
Biochemistry 7, 3 14	5	Philosophy 52	3
Home Economics 7, 2 14	4	Physics 8, 4 12 $\frac{1}{2}$	5
Philosophy 51	3	Electives	3
Electives	3		

SENIOR YEAR

English 45	3	Home Economics 12, 3 12	4
Home Economics 9	3	Home Economics 14	2
Sociology 55	3	Sociology 56	3
Elective	9	Elective	8

Students desiring to teach should elect Education 51 and 52, and Home Economics 16.

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Two Years Curriculum in Home Economics

This curriculum is offered for those students who can not meet the entrance requirements for the four years curriculum in Home Economics. The work does not lead to a degree, but a certificate is granted when it is completed. For information regarding courses and fees, see the four years curriculum in Home Economics. *After September, 1915, entering students will not be registered for this curriculum.*

FIRST YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2 or 4	3
Chemistry 5, †4	2	Chemistry 6	2
English 7	2	English 8	2
Home Economics 1, 1 †4	3	Home Economics 2, 1 †4	3
Home Economics 3, 1 †2	2	Home Economics 4, 1 †2	2
History 7	3	History 8	3
Home Economics 13, 1 †4	3	Home Economics 14	2
Physical Training	$\frac{1}{2}$	Physical Training	1

SECOND YEAR

Home Economics 5, 2 †4	4	Home Economics 6, 2 †4	4
Home Economics 7, 2 †4	4	Home Economics 8, 2 †4	4
Bacteriology 1, †6	3	English 30	3
Bacteriology 3	2	Electives	2
English 29	3		
Electives	4		

Special Courses in Agriculture and Home Economics

The Special Courses in Agriculture and Home Economics are designed for young men and women who cannot well spend four years in preparation, but who desire to secure special training in this line. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, dairying, poultry management, veterinary science, agricultural chemistry, bacteriology, farm management, general agriculture, or home economics.

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Persons not candidates for a degree who wish to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to take the desired studies. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, and not for those who are incompetent to pursue a regular course. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four years curricula. Tuition is free to residents of Maine except in Forestry and Biology.

Two Years School Course in Agriculture

This is a course designed to train young men and women who wish to become practical farmers, farm superintendents, dairymen, poultrymen, or gardeners, but who cannot devote time to high school or college training.

The same equipment is used as in the four years curricula, but the work is of a more elementary nature. All the classes are separate and distinct from the four years classes, and in no case will college credit be allowed for work done in the School Course.

There are no entrance examinations required of those who desire to enter the School Course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. No tuition is charged in this course, but the same registration and incidental fees of fifteen dollars a semester, or thirty dollars a year, are charged School Course students in agriculture as are charged all others attending the university. Fees amounting to two dollars and fifty cents are charged in each of the carpentry and blacksmithing courses to cover cost of material used. Fees are also charged in several agricultural laboratories.

The practical side of the work in this course is strongly emphasized, and since students are expected to be able to do work and handle men when they have finished, those taking this course are required to spend the summer vacation between the first and second years in work either at the college or on some farm approved by the faculty.

On completion of the course a certificate is awarded those who have satisfactorily done the work.

The following is a schedule of the work given:

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FIRST YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Husbandry, 3 †2	4	Dairy Husbandry, 3 *3	4
Business Arithmetic and Farm Accounts	2	English	3
Carpentry, *3	1	Farm Botany	2
English	3	Forge Work, *3	1
Farm Crops, 3 *3	4	Fruit Growing, 3 *3	4
Fruit Handling, 3 *3	4	Poultry Husbandry, 2 †2	3
Poultry Husbandry	2	Soils and Fertilizers, 3 *3	4

SECOND YEAR

Animal Husbandry, 3 †2	4	Animal Husbandry, 3 †2	4
English	2	English	2
Farm Chemistry	3	Farm Management, 3 *3	4
Farm Crops	2	Forestry	2
Farm Engineering and Mechanics, 1 *3	2	Insects	2
Poultry Husbandry	2	Poultry Husbandry	2
Vegetable Gardening, 3 *3	4	Small Fruit Culture and Plant Propagation, 3 *3	4
Veterinary Science	3	Veterinary Science	3

Short Winter Courses in General Agriculture, Dairying, Horticulture, and Poultry Management

The short course in general agriculture deals especially with farm crops. Special attention is given to the potato, corn, oat, and hay crops,—the preparation of the seed bed, selection of seed, seeding, fertilization, culture, and harvesting. Such general subjects as drainage, maintenance of soil fertility, rotation of crops, control of weeds, etc., are considered. Potato, corn, and small grain judging is made a prominent feature.

The short course in dairying is designed to meet the requirements of creamery assistants, practical farmers, herdsmen, and others who desire to learn milk testing, butter making, the principles of animal nutrition, and practices of feeding, breeding, judging stock, and the diseases of farm animals.

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The short course in horticulture is offered for those who wish to acquaint themselves with the most approved methods of orchard management. Special attention will be given to such subjects as the selection of orchard sites, selecting and obtaining nursery stock, pruning, cultivation, spraying, packing, and cooperation in the fruit business. Opportunity will be given for the laboratory study of spraying, packing, planting, pruning, and grafting. An effort is made to show where money is lost and made in the fruit business.

The short course in poultry management is given each year to aid persons who wish to gain a practical knowledge of the handling of incubators and brooders, the feeding and rearing of young chicks, the general management of mature fowls, scoring, judging, killing, and marketing. For purposes of instruction the College of Agriculture keeps representatives of the leading breeds of fowls.

Very few text-books are used in any of the courses and the expenses for board and room, which are the only other expenses, are moderate. Circulars giving the dates and programs of these courses are published each year and will be sent upon application to the College of Agriculture.

Farmers' Week

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farmers' Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. A section is arranged where home economics for farmers' wives is taught. Dates and programs may be secured each year by addressing the College of Agriculture.

Department of Agricultural Extension

This department of the College of Agriculture offers correspondence courses, lecture courses, demonstration work, cooperative experiments, and extension schools in agriculture.

This work is intended to give direct help to those on the farm and in the home; to aid those who desire definite instruction in practical agriculture, animal and dairy husbandry, poultry husbandry, home economics, forestry, and horticulture. It supplements the teaching and,

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experimenting of the College of Agriculture and the Agricultural Experiment Station. It is professedly a popular work, because it endeavors to aid the farmer to solve the practical problems of the farm, to quicken agricultural work, and to inspire greater interest in country life.

Correspondence Courses

These courses are given by means of text-books and publications of the college, the U. S. Department of Agriculture, or of the various experiment stations. The text-books are furnished at publishers' prices. The courses are free and may be taken by individuals, granges, reading circles, or other organizations. A certificate will be given to students completing any of these courses with satisfactory standing.

The following courses are offered:

- Course 1—Farm Crops and Crop Production
- Course 2—Farm Management
- Course 3—Feeding and Breeding of Farm Animals and Dairying
- Course 4—Poultry Keeping
- Course 5—Fruit Growing
- Course 7—Elementary Agriculture
- Course 8—Home Economics
- Course 9—Vegetable Gardening
- Course 10—The Business of Dairying

Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Demonstration Work

For this work members of the agricultural faculty will make demonstrations, showing, as well as telling, how to solve many practical farm problems. These demonstrations are made on the farms and are offered under the same conditions as the lectures.

The following is a partial list of the demonstrations that may be secured: home mixing of fertilizers; milk testing (use of Babcock tester); stock judging; corn and small grain judging and breeding; potato judging, breeding, and spraying; orchard spraying, pruning, and

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grafting; apple packing; method of killing and dressing poultry; method of determining the age of horses; methods of giving medicine to domestic animals. All demonstrations are accompanied by lectures.

Farm Demonstration Work

This form of extension service consists of practical demonstration of farming operations, of the values of various projects, and of proper equipment in the farming business.

The demonstration work is now established in ten counties with every prospect of spreading to the remaining counties in the State within a few years.

Boys' and Girls' Agricultural Clubs

The organization of junior agricultural and home economics clubs was begun in 1913, under the direction of the Extension Department, with State Leaders in active charge of the field work. The club work is conducted very largely in cooperation with the schools, granges, and the Y. M. C. A. county work. It will be extended thruout the State as rapidly as possible. Local exhibits will be held the present year and the winners at these exhibits will compete later in a State contest to be held at the College of Agriculture.

Extension Schools in Agriculture

To extend the advantages of agricultural instruction to persons actively engaged in agriculture, the Extension department will conduct a limited number of three day schools in various parts of the State. Members of the agricultural faculty will teach in these schools.

Correspondence

Besides the Demonstration, Correspondence, and Lecture courses, the College of Agriculture welcomes correspondence on practical farm topics. If information is desired along lines relating to crops, fertilizers, dairy work, feeding, or orcharding and gardening, the various instructors are ready to give such assistance as they are able.

A free publication, "Extension Bulletin", dealing with agricultural and home economics subjects, is issued at frequent intervals thruout

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the year. This bulletin is sent to all persons whose names appear on the bulletin mailing list and to such other persons as may apply for same.

Circulars giving full information upon these subjects will be sent upon request.

DEPARTMENTS OF INSTRUCTION

NOTE.—A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (§) indicates that two and one-half hours are required. *Courses having an odd number are given in the fall semester and those having an even number in the spring semester.*

If the student so elects, he may prepare a thesis upon some subject related to his major work. The subject should be selected and approved by the head of the department before the close of the junior year.

AGRONOMY

PROFESSOR SIMMONS; ASSISTANT PROFESSOR OSLER; MR. SINK

Soils

For undergraduates only

1. SOILS.—Lectures and recitations on the origin, types, physical properties, moisture content, and distribution of soils, and their relation to crop production. The fundamental principles underlying soil management for soil conservation and improvement will be studied. Class room, *two hours a week*; laboratory, **three hours a week*.

3. SOIL FERTILITY.—This course deals with stable manures, green manures, commercial fertilizers, and soil amendments; also a study of soil organisms as affecting the plant food in the soil. *Two hours a week.*

Departments of Instruction

For graduates and undergraduates

52. SOIL SURVEYING AND MAPPING.—A study is made of soil types, the principles of correlation and methods of soil surveying and mapping. Class room, *two hours a week*; laboratory, **three hours a week*.

54. SOIL FERTILITY.—Soil improvement investigation. A review of the experimental work in this country and abroad. The application of these results to soil improvement and crop production problems. Prerequisites, Courses 1 and 3. *Two hours a week*.

Crops

For undergraduates only

11. FIELD CROPS.—A laboratory course in seed and grain identification, improvement by grading, testing, selecting, and preparing seed for planting. A collection of weeds and their seeds will be required. *†Four hours a week*.

12. FIELD CROPS.—A general course including a study of the most important cereal, grass, forage, and root crops, their adaptation to systems of rotation, culture and uses, with special reference to New England conditions. Class room, *two hours a week*; laboratory, *†two hours a week*.

13. FIELD CROPS. JUDGING AND COMMERCIAL GRADING.—Comparative judging of corn, small grains, and potatoes, according to standards. A study of market grade requirements. Class room, *one hour a week*; laboratory, *†two hours a week*.

14. FIELD CROPS. CORN—A course dealing with the production of corn and the care and marketing of the crop. Types and varieties of both field and sweet corn will be considered in this course. Class room, *one hour a week*; laboratory, *†two hours a week*.

15. FIELD CROPS. ROOTS AND TUBERS.—A course dealing with the production, storage, and marketing of roots and tubers. Class room, *one hour a week*; laboratory, *†two hours a week*.

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16. FIELD CROPS. GRASSES AND FORAGE CROPS.—Lectures and laboratory work dealing with the grasses and forage plants. A study of the hay crop and markets; soiling systems, and their adaptation to local conditions. Class room, *one hour a week*; laboratory, *two hours a week*.

18. FIELD CROPS. CROP IMPROVEMENT.—A study of the principles and methods involved in field crop improvement. The work of experiment stations in this country and abroad is reviewed. Prerequisites, Courses 11 and 12. *Two hours a week*.

For graduates and undergraduates

62. SYSTEMATIC FIELD CROPS.—A course designed for advanced or graduate students preparing for experimental work, teaching, or plant breeding. Students will be expected to grow and collect material under the supervision of the department during the summer months. Prerequisite, adequate training in botany and field crops. Time must be arranged with the instructor not later than the middle of the junior year. *Two or more hours a week*.

63. SYSTEMATIC FIELD CROPS.—A continuation of Course 62. *Two or more hours a week*.

65. SEMINAR.—A study of recent literature, problems, and experiments pertaining to Agronomy and Farm Management. *One hour a week*.

66. SEMINAR.—A continuation of Course 65. *One hour a week*.

67, 68. THESIS.—*Three hours a week*.

ANIMAL INDUSTRY

PROFESSOR CORBETT; MR. THOMAS; MR. SHERWOOD; MR. RICHARDSON

Animal and Dairy Husbandry

For undergraduates only

2. TYPES AND BREEDS OF FARM ANIMALS.—A study of the types and breeds of farm animals. A course covering the history, development, and characteristics of farm animals. *Two hours a week*.

Animal Industry

3. CARE, FEED, AND MANAGEMENT OF LIVE STOCK.—A course dealing with the selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Prerequisites, Courses 2 and 4. *Two hours a week.*

6. LIVE STOCK FEEDING.—A study of the general principles of nutrition with the types and breed characteristics of farm animals, by use of the score card, comparative judging, and the selection of breeding stock. To be taken in connection with Course 2. †*Two hours a week.*

5. LIVE STOCK JUDGING.—A continuation of Course 4. †*Two hours a week.*

6. LIVE STOCK FEEDING.—A study of the general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, calculating rations, methods of feeding for economic production. Prerequisites, Course 3, Biochemistry I and 2. *Two hours a week.*

7. GENERAL DAIRYING.—Given by lectures, assigned readings, recitations, and laboratory practice. Milk; its secretion, composition, properties, pasteurization, separation; dairy practices in handling milk and cream, dairy equipment, use of common dairy machinery; preparation of starters; test of dairy products for fat (Babcock method), acidity, total solids, common adulterations, and preservatives. Class room, *two hours a week*; laboratory, †*four hours a week.*

8. BUTTER MAKING.—Lectures and laboratory practice in starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 7. Class room, *one hour a week*; laboratory, †*six hours a week.*

9. CHEESE MAKING.—Lectures, recitations, and laboratory practice in the manufacture and curing of various types of cheese, including Cheddar and soft cheeses adapted to the New England trade. The laboratory work requires six consecutive hours. Prerequisite, Course 7. Class room, *two hours a week*; laboratory **six hours a week.*

For graduates and undergraduates

51. DAIRY TECHNOLOGY.—A study of dairy products; dairy by-products; factory machinery and operations; certified milk; markets and marketing; educational work with dairymen. Given by lectures, reci-

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tations, assigned readings, and round table conferences. Prerequisite, Course 7. *Three hours a week.*

52. **ADVANCED LIVE STOCK JUDGING AND MANAGEMENT.**—A laboratory course in which the individual student gets experience in handling live stock and preparation of stock for the show ring and market. As far as possible, visits will be made to live stock farms. †*Two hours a week.*

53. **ADVANCED LIVE STOCK FEEDING AND MANAGEMENT.**—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in the production of milk, meat, and the rearing of horses, are studied. *Two hours a week.*

54. **ADVANCED ANIMAL BREEDING.**—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records by the use of the different herd books; an economic study of the generative systems of domestic animals. Prerequisites, Course 3, and Veterinary Science 6. *Two hours a week.*

55, 56. **THESIS.**—*Three hours a week.*

58. **ICE CREAM MAKING.**—Lectures and recitations on the history and methods of the manufacture of ice cream and ices. Laboratory practice in the manufacture of ice cream and ices. Prerequisite, Course 51. Class room, *one hour a week*; laboratory, *three hours a week.*

Poultry Husbandry

For undergraduates only

1. **TYPES, BREEDS, AND MANAGEMENT OF POULTRY.**—Lectures and recitations on the origin and development of the types, breeds, and varieties of fowl, ducks, geese, and turkeys; the general care, feed, and management of farm poultry; and the marketing of poultry products. Laboratory exercises include practice in poultry management, poultry judging, and the preparation of poultry products for market. Class room, *two hours a week*; laboratory, †*two hours a week.*

2. **TYPES, BREEDS, AND MANAGEMENT OF POULTRY.**—A continuation of Course 1. Class room, *one hour a week*; laboratory, †*two hours.*

Poultry Husbandry

3. COMMERCIAL POULTRY FARMING.—Lectures and recitations on the business of poultry farming; the systems and operations in use on large poultry farms; the planning of specialized poultry farms. Class room, *one hour a week*; laboratory, *†two hours a week*.

4. POULTRY FEEDING.—Lectures and recitations on the general principles of nutrition as applied to poultry; poultry feeds; calculating rations; estimating cost of feeds and feeding, and methods of feeding for economical production. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, *†two hours a week*.

5. POULTRY LITERATURE.—A study of experimental data on poultry management. Prerequisites, Courses 1 and 2 and 4. Class room, *two hours a week*.

6. INCUBATION AND BROODING.—Lectures and recitations on the principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisites, Courses 1 and 2. Class room, *three hours a week*; laboratory, *†two hours a week*.

NOTE. During incubation period, extra time will be required.

7. POULTRY BREEDING.—Lectures and recitations on the principles of breeding as applied to poultry; the inheritance of egg productivity; systems of breeding; mating of utility and exhibition poultry and care of breeding stock. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*; laboratory, *†two hours a week*.

For graduates and undergraduates

51, 52. THESIS.—*Three hours a week*.

Bacteriology and Veterinary Science

PROFESSOR RUSSELL; ASSISTANT PROFESSOR SMITH

For undergraduates only

1. BACTERIOLOGY.—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and the study of the morphological and biological characteristics

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of typical bacteria. Some outside reading will be required. Required of students taking major work in Agriculture. †*Six hours a week.*

2. BACTERIOLOGY.—Similar to Bacteriology 1. Offered for students in the College of Technology and others who may elect it. †*Six hours a week.*

3. BACTERIOLOGY.—A lecture course open to all students. It should be elected by students taking Course 1 as well as by students not taking a laboratory course. Subjects considered will include the history of bacteriology; classification and biological characteristics of bacteria, bacteria in air, water, soil, and dairy products; the relation of bacteria to health and disease; immunity. *Two hours a week.*

12. VETERINARY SCIENCE.—This course deals with the anatomy, physiology, and diseases of poultry. *Two hours a week.*

14. VETERINARY SCIENCE.—A combined lecture and laboratory course dealing with the anatomy and physiology of our domestic animals, and their treatment to preserve and restore health. *Three hours a week.*

15. VETERINARY SCIENCE.—A continuation of Course 14. *Two hours a week.*

16. VETERINARY SCIENCE.—A clinic open to all students studying veterinary science. *One hour a week.*

17. VETERINARY SCIENCE.—A continuation of Course 16. *One hour a week.*

19. VETERINARY SCIENCE.—Veterinary materia medica and pharmacy. *Two hours a week.*

For graduates and undergraduates

52. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; and investigation into the sources of milk bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week*; laboratory, †*four hours a week.*

Biological and Agricultural Chemistry

53. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; and a study of soil bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week*; laboratory, *†four hours a week*.

Primarily for graduates

101-102. BACTERIOLOGY.—This is a laboratory course for students who desire to pursue some particular line of bacteriological investigation. Open only to students who have done considerable work in bacteriology. The kind of work and the time will be arranged to suit individual students.

Biological and Agricultural Chemistry

PROFESSOR MERRILL; MR. PATTERSON

For undergraduates only

1. BIOCHEMISTRY.—Lectures and recitations on the composition of the plant; the source, nature and assimilation of plant food; fermentation, its nature, effects, and control. *Two hours a week*.

2. BIOCHEMISTRY.—A continuation of Course 1. The composition of the animal body and of food materials; the adaptation of food to animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy. Class room, *three hours a week*; laboratory, *†four hours a week*.

3. ECONOMIC GEOLOGY.—A course in applied geology, including a general survey of our mineral resources, with special reference to the mineral fuels; the distribution and manner of occurrence of the more useful metals; the economically important nonmetallic minerals; and a study of the rocks and their uses as building stone, as road material, and as sources of lime and cement. *Two hours a week*.

5. GEOLOGY.—A study of the earth's history and development, with especial attention to dynamical, structural, and physiographical geology. *Three hours a week*.

6. AGRICULTURAL CHEMISTRY.—This course includes a study of the origin and composition of soils; the source and composition of fertiliz-

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ing materials; the fixation of atmospheric nitrogen; the composition of insecticides and fungicides; the chemistry of milk and other dairy products. Prerequisite, Course 1. *Two hours a week.*

7. BIOCHEMISTRY.—An abridged course, including a study of the proteins, fats, and carbohydrates, the digestive enzymes and processes, the tissues and secretions of the body. Class room, *three hours a week*; laboratory, *†four hours a week.*

8. FOOD ANALYSIS.—A brief introduction to quantitative analysis, with laboratory practice in the analysis of foods; lectures on food adulteration and methods for its detection. Class room, *one hour a week*; laboratory, *†six hours a week.*

For graduates and undergraduates

51. BIOCHEMISTRY.—Lectures and recitations on the composition of the plant; the source, nature, and assimilation of plant food; the composition of the animal body and of food materials; the adaptation of food to the animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy; general metabolism; the chemical processes and methods of investigation by which these subjects are studied. Prerequisite, Chemistry 52. *Five hours a week.*

52. LABORATORY BIOCHEMISTRY.—A study of the carbohydrates, fats, and protein bodies; the digestive enzymes; the blood muscles, bones, and other tissues of the body; milk, bile, and other secretions. A continuation of the preceeding course. *†Four hours a week.*

60. AGRICULTURAL ANALYSIS.—A course in the qualitative and quantitative analysis of fodders, fertilizers, milk, butter, and other dairy products. The course is designed for students desiring to take up experiment station and inspection work. Prerequisites, Chemistry 53 and 60. *†Ten hours a week.*

Biology

The courses in this department are described under the College of Arts and Sciences

Farm Management and Agricultural Engineering

Farm Management and Agricultural Engineering

PROFESSOR SIMMONS; MR. SINK

For undergraduates only

2. FARM ACCOUNTING: (a) FARM MATHEMATICS.—Instruction in this subject consists in the application of its principles to all kinds of farm problems where measurements of material, extension, capacity, etc., are required.

(b) FARM RECORDS AND ACCOUNTS.—A system of records of the various operations of the farm, such as records of field labor, crop yields, milk production in the dairy, etc.; a system of accounts showing the receipts and expenditures of the farm. †*Four hours a week.*

For graduates and undergraduates

71. AGRICULTURAL ENGINEERING AND RURAL ARCHITECTURE: (a) AGRICULTURAL ENGINEERING.—Farm surveying and leveling; the plotting of farms and measurements of land; a study of drainage; estimating the investment and returns from a system of drainage; the making of roads; road material.

(b) RURAL ARCHITECTURE.—The planning, designing, location, and construction of farm buildings, water systems, sewerage, concrete construction. Class room, *two hours a week*; laboratory, **three hours a week.*

72. FARM MECHANICS AND MACHINERY: (a) FARM MECHANICS.—A study of the simpler laws of mechanics as applied to farm implements and farm machinery.

(b) FARM MACHINERY.—A study of machinery used on the farm, farm power, etc. Demonstrations and tests are made with various machines and implements. Class room, *two hours a week*; laboratory, **three hours a week.*

73. HISTORY AND ECONOMICS OF AGRICULTURE: (a) HISTORY OF AGRICULTURE.—A history of agriculture from early times to the present day; the beginning of British agriculture, and the development of modern agriculture; the agriculture of the United States, its influence on social conditions; the importance of our leading products, and their effect on

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the world's commercial life; the agriculture of different sections; the development of farm machinery; progress in agricultural education. Lectures supplemented by illustrative material and slides.

(b) ECONOMICS.—The factors of agricultural production, and their economic properties; organization of the farm; rent of farm land and the law of diminishing returns from the land; systems of distribution; a study of life in the rural communities; schools and other rural organizations. Class room, *two hours a week*; laboratory, *†two hours a week*.

74. FARM MANAGEMENT.—A study of the various types of farming, with comparison of investment and returns from each. A study will be made of the conditions under which extensive, intensive, and mixed systems of farming prosper or fail; laying out of fields and rotations of crops; investigation of cost of different farming operations; management of men and teams; markets and marketing. Farm surveys, with a detailed study of the conditions on different farms, will be made. Farm plans will be outlined to suit various conditions. Class room, *two hours a week*; laboratory, **three hours a week*.

Forestry

PROFESSOR BRISCOE; ASSISTANT PROFESSOR EATON

1. FOREST ECONOMICS.—The influence of forests on climate, on conservation and distribution of water, on soils, topography, and public health; relation of forestry to agriculture, mining, stock raising, manufacturing, railroads, and other industries; character and extent of our natural forest resources; importance of the conservation of these resources. Second half of semester. *Two hours a week*.

2. GENERAL FORESTRY.—The importance and scope of the subject; forests as soil formers, soil fixers, and soil improvers; relation of forests to the health of the community; relation to state and national government; influence of forests on floods and drouths; geographical distribution of forests. *Two hours a week*.

3. WOOD PRESERVATION.—The structural, physical, and chemical properties of wood, particularly with relation to durability; the seasoning of wood; relation of moisture content to decay; the theory of impregnating wood; commercial methods of preservation; fire-proofing. *One hour a week*.

Forestry

4. WOOD TECHNOLOGY.—The identification and classification of the economic woods of the United States, based on inspection and simple lens laboratory work; distinguishing by means of structure, color, gloss, grain, texture, weight, density, odor, resonance, and taste; abnormal structures and defects in the woods; occurrence of various species, and their uses in the arts and trades. Class room, *one hour a week*; laboratory, *one hour a week*.

5. HISTORY OF FORESTRY.—The development of forestry in European countries and the United States. First half of semester. *Two hours a week*.

6. FOREST MENSURATION.—A continuation of Forestry II. *Two hours a week*.

7. FOREST PROTECTION.—Systems of fire protection practiced by the Federal government, state governments, and individuals or associations; protection against atmospheric agencies; against insect damages; against grazing and browsing animals; against parasitic plants and weeds. *One hour a week*.

8. FOREST MENSURATION FIELD WORK.—A continuation of Course 13. **Six hours a week*.

9. FOREST PRODUCTS.—Dealing with forest products other than logs and lumber, such as pulp wood, veneer wood, shingles and lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods for spokes and hubs, box boards, turpentine, tannin, gums, sirups, dye woods, and charcoal; methods of utilization, markets and values. *Two hours a week*. Second half of semester.

10. FOREST MAPPING.—Making type and topographical maps; using data of valuation survey and also traverse board; practical work in computing aneroid readings for elevation; timber estimates for valuation survey. Prerequisites, Courses 6 and 11. **Six hours a week*. Second half of semester.

11. FOREST MENSURATION.—Instruction in the theory of forest measurements. Lectures and recitations. Calculations and computations from data obtained in field work; construction of tables of growth, volume, and yield. *Two hours a week*.

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12. FOREST MANAGEMENT.—Applied systems of silvicultural management are considered in relation to all the commercially important species and types of forest in the United States. Critical discussion of management practiced on forest tracts in various regions; comparison with European systems; the work now being done in this country; practical problems to work out in the field. *Two hours a week.*

13. FOREST MENSURATION FIELD WORK.—Use of various instruments in forestry practice, determining the contents of standing and felled trees and the volume of stands; study of the use of American log scales and rules; consideration of the various methods and systems of measurement used in the United States; studies of the rate of growth of trees in diameter, height, and volume; growth and increment of stand. **Six hours a week.*

14. FOREST MANAGEMENT FIELD WORK.—The practical application of all the forestry courses in the preparation of a working plan for an assigned tract. **Six hours a week.*

15. SILVICULTURE.—A study of the facts which concern forest growth and the relation of the tree to external influence; the forest as a whole; characteristics of the forest, and of the forest regions of the United States; systems of forest reproduction; methods of tending and cultivating the forest. Prerequisites, Biology 61, 62, 67, and 68. *Two hours a week.*

16. SILVICULTURE.—A continuation of Course 15. To be taken in connection with Course 18 as field work. *Two hours a week.*

17. SILVICULTURE FIELD WORK.—Special studies and practical work in the forest. A part of the time is devoted to the making of a forest map of 1000 or more acres of land in the vicinity of the University. A report accompanies the map describing the condition of the tract and the types of forest growth in detail. To be taken in connection with Course 15. **Six hours a week.*

18. SILVICULTURE FIELD WORK.—Practice in thinning and planting, practical tests of the germinating quality of tree seeds, and a study of seedlings. The student is required to prepare a map and planting plan of an assigned tract. To be taken in connection with Course 16. **Six hours a week.*

Home Economics

19. LUMBERING.—The industry considered from the economic standpoint; an account of the methods of lumbering in the different regions of the United States. Required of all major students. First half of semester. *One hour a week.*

20. VALUATION AND REGULATION.—Economic and business principles underlying the management of forest products. The application of mensuration to the management of forests; principles and preparation of working plans; the normal forest; methods of obtaining sustained yields and continuous revenue. First half of semester. *One hour a week.*

21. LUMBERING FIELD WORK.—In this course the student is expected to spend two weeks in a lumber camp and to prepare a written report on the operation of lumbering in that locality. Required of all major students. Time to be arranged. *Three hours a week.*

22. FOREST POLICY.—National and State forest policy and administration; relation of corporations and private owners in regard to forest policies; applied forest management. Open to major students only. Second half of semester. *One hour a week.*

23. CURRENT FORESTRY LITERATURE.—This course consists of reviewing periodicals and current forestry literature and in making a card index for reference work for the same. Elective for seniors majoring in Forestry. Class room, *one hour a week.*

24. FOREST LAW.—Laws of the Federal Government and of the several states concerning forests and forestry. *One hour a week.*

25. THESIS.—*Two hours a week.*

26. THESIS.—*Three hours a week.*

Home Economics

PROFESSOR FREEMAN; ASSISTANT PROFESSOR WHITCOMB; MISS BEACH;
MISS KNIGHT

For undergraduates only

1, 2. TEXTILES AND CLOTHING.—A study of fibers and fabrics from a historic, economic, and social standpoint. The laboratory work consists of the making of plain garments, involving drafting and design,

College of Agriculture

and selection of materials. Class room, *one hour a week*; laboratory, *†four hours*.

3, 4. DESIGN AND COLOR.—The object is to develop the appreciation of harmony of line, space, and color. Class room, *one hour a week*; laboratory, *†two hours a week*.

5, 6. FOODS.—A study of food composition, cost, and the principles involved in preparation. The laboratory work consists in the preparation of the various types of foods. Prerequisites, Chemistry 1 or 3, 5, 2 or 4, and 6. Class room, *two hours a week*; laboratory, *†four hours a week*.

7. DRESS.—Economics, hygiene, design, and color are studied in their relation to dress. The laboratory work consists in designing and drafting of pattern, selection of materials, and the making of dresses. Prerequisites, Courses 1, 2, 3, and 4. Class room, *two hours a week*; laboratory, *†four hours a week*.

8. HOUSE CONSTRUCTION AND FURNISHING.—The evolution of the house, of house furnishings, their color, design, and cost. The laboratory work consists in the planning of the house, making plans and estimates for house furnishings, and visiting of shops. Also the designing and making of accessories in furnishing and decorating the house. Prerequisites, Courses 1, 2, 3, and 4. Class room, *two hours a week*; laboratory, *†four hours a week*.

9. SANITATION.—The situation of the house regarding general surroundings; sanitary conditions in and around the house, ventilation, water supply, heating, and plumbing; the householder's interest in public sanitation and hygiene. Prerequisites, Bacteriology 1 and 3. Class room, *three hours a week*.

10. DIETETICS.—The chemical, economic, and physiological principles of human nutrition are studied. Prerequisites, Courses 5 and 6, and Biochemistry 7. Class room, *three hours a week*; laboratory, *†four hours a week*.

11. FOODS.—Problems in the preparation and serving of foods. A continuation of Courses 5 and 6. Class room, *one hour a week*; laboratory, *†four hours a week*.

Horticulture

12. HOUSEHOLD MANAGEMENT.—A study of economic and social principles of the household, organization of the household, division of income, labor, household processes, and care of the household. Open to seniors. Class room, *three hours a week*; laboratory, †*two hours a week*.

13. HANDWORK.—Historical and social development of textile industries from primitive man to modern times. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, †*four hours a week*.

14. HYGIENE AND HOME NURSING.—Personal hygiene; the practical application of bacteriology and physiology in health and disease; the care of the baby; first aid to the injured. Prerequisites, Bacteriology 1 and 3, and Biology 5. *Two hours a week*.

16. TEACHERS' COURSE.—Methods of presenting the work and its correlation with other subjects. Practice in planning courses of study and equipment. Open to seniors. *Three hours a week*.

17, 18. THESIS.—Different phases of home economics; individual problems. Open to seniors. *Two to four hours a week*.

Horticulture

PROFESSOR BROWN; ASSOCIATE PROFESSOR HITCHINGS; MR. LURIE

For undergraduates only

1. COMMERCIAL POMOLOGY.—A course in methods of picking, grading, packing, storing, and marketing fruit. The laboratory work of this course will acquaint the student with the more important varieties of fruit in this State. Class room, *two hours a week*; laboratory, †*two hours a week*.

2. PRACTICAL POMOLOGY.—A study of orchard sites and soils, methods of propagating, setting, cultivating, fertilizing, pruning, and spraying. Class room, *two hours a week*; laboratory, **three hours a week*.

3. SYSTEMATIC POMOLOGY.—A systematic study of the types and varieties of the leading groups of fruits, their evolution and adaptation to

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environment; also distribution of varieties in the State. Prerequisites Courses 1 and 2. Class room, two hours a week; laboratory, †two hours a week.

4. VEGETABLE GARDENING.—A course in practical vegetable gardening; grading, marketing and storing of vegetables, including the systematic study of varieties and types for home and commercial use. Class room, two hours a week; laboratory, †two hours a week.

5. LANDSCAPE GARDENING.—A study of the principles of landscape art and of the materials used in making landscape pictures. Special attention is given to the improvement of the home grounds. Class room, two hours a week; laboratory, †two hours a week.

7. GENERAL FLORICULTURE.—A study of the culture, propagation, management, and care of flowers for commercial purposes. Methods of producing, shipping, marketing, and designing, will be considered. Class room, two hours a week; laboratory, †two hours a week.

8. GREENHOUSE CONSTRUCTION.—A study of the various types of greenhouses and the methods of construction. Estimates and plans are made for houses suitable for conservatories, private estates, and commercial floriculture. Cost and methods of installing heating systems, show rooms, and storage houses are also considered. Class room, two hours a week; laboratory, †two hours a week.

9. SMALL FRUIT CULTURE.—A study of the bush and vine fruits, including strawberries; adapted varieties; methods of propagation, culture, harvesting, and marketing. Class room, two hours a week; laboratory, †two hours a week.

10. PLANT BREEDING.—A course in plant breeding, as applied to variation, selection, and hybridization, adapted to garden and fruit crops. Prerequisite, Biology 3. Two hours a week.

11, 12. THESIS.—Three hours a week.

For graduates and undergraduates

51. SEMINAR.—Preparation and discussion of papers dealing with the recent problems and experiments in Horticulture. Required of students taking major work in Horticulture. Prerequisites, Courses 1 and 2. One hour a week.

Horticulture

52. SEMINAR.—A continuation of Course 51. Requirements and prerequisites the same. *One hour a week.*

54. FLORICULTURE.—A course designed to give practical knowledge of the propagation and culture of annuals, herbaceous perennials, bulbs, roses, bedding plants, and other garden plants, with especial reference to care of public parks and private estates. Class room, *two hours a week*; laboratory, *†two hours a week.*

56. PLANT DISEASE CONTROL.—A course designed to acquaint the student with the various kinds and types of spray machinery, and with the preparation and application of the various sprays used in disease control. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, *†two hours a week.*

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 205.

PHYSICAL CULTURE AND ATHLETICS

The courses in this department are described on page 207

COLLEGE OF ARTS AND SCIENCE

FACULTY OF INSTRUCTION

JAMES STACY STEVENS, M. S., LL. D.	<i>Professor of Physics</i>
DEAN	
MERRITT CALDWELL FERNALD, PH. D., LL. D.	<i>Emeritus Professor of Philosophy</i>
LUCIUS HERBERT MERRILL, Sc. D.	<i>Professor of Biological Chemistry</i>
JAMES NORRIS HART, C. E., M. S., Sc. D.	<i>Professor of Mathematics and Astronomy</i>
JOHN HOMER HUDDILSTON, PH. D.	<i>Professor of Greek and Classical Archeology</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>
JACOB BERNARD SEGALL, PH. D.	<i>Professor of French</i>
GEORGE DAVIS CHASE, PH. D.	<i>Professor of Latin</i>
CAROLINE COLVIN, PH. D.	<i>Professor of History</i>
WALLACE CRAIG, PH. D.	<i>Professor of Philosophy</i>
ROLAND PALMER GRAY, A. M.	<i>Professor of English</i>
RALPH HARPER McKEE, PH. D.	<i>Professor of Chemistry</i>
GARRETT WILLIAM THOMPSON, PH. D.	<i>Professor of German</i>
GUY ANDREW THOMPSON, PH. D.,	<i>Professor of English Literature</i>
WINDSOR PRATT DAGGETT, PH. B.	<i>Professor of Public Speaking</i>
MINTIN ASBURY CHRYSLER, PH. D.	<i>Professor of Biology</i>
GEORGE WARE STEPHENS, PH. D.	<i>Professor of Economics and Sociology</i>
ANDREW PAUL RAGGIO, PH. D.	<i>Professor of Spanish and Italian</i>
ROY FRANKLIN RICHARDSON, PH. D.	<i>Professor of Education</i>
CHARLES WILSON EASLEY, PH. D.	<i>Associate Professor of Chemistry</i>

Faculty

LEON ELMER WOODMAN, PH. D. *Associate Professor of Physics*

HARLEY RICHARD WILLARD, PH. D.

Associate Professor of Mathematics

ALICE MIDDLETON BORING, PH. D.

Associate Professor of Zoology

JAMES McCLUER MATTHEWS, A. M.

Associate Professor of Economics and Sociology

DANIEL WILSON PEARCE, A. M.

Associate Professor of Education

ROBERT RUTHERFORD DRUMMOND, PH. D.

Associate Professor of German

TRUMAN LEIGH HAMLIN, M. A.

Assistant Professor of Mathematics

HARRY NEWTON CONSER, M. S., M. A.

Assistant Professor of Botany

LLOYD MEEKS BURGHART, M. A.

Assistant Professor of Chemistry

RAYMOND HARMON ASHLEY, PH. D.

Assistant Professor of Chemistry

ALBERT GUY DURGIN, M. S. *Assistant Professor of Chemistry*

LOWELL JACOB REED, M. S. *Assistant Professor of Mathematics*

RALPH MAYNARD HOLMES, M. A. *Assistant Professor of Physics*

JOSEPH NEWELL STEPHENSON, M. S.

Assistant Professor of Chemistry

BURNETT OLCOTT McANNEY, A. B., B. Lit.

Assistant Professor of English

WALTER EDMUND WILBUR, M. S. *Instructor in Mathematics*

HERBERT SOLEY BAIN, A. B.

Instructor in German

DAVID LEE CLARK, A. M.

Instructor in English

MARTIN ANDREW NORDGAARD, M. A. *Instructor in Mathematics*

RAYMOND FLOYD, B. A.

Instructor in German

NORMAN RICHARDS FRENCH, B. A.

Instructor in Physics

FRANCOIS JOSEPH KUENY, L és L.

Instructor in French

SIDNEY WINFIELD PATTERSON, B. S.

Instructor in Biological and Agricultural Chemistry

GLEN BLAINE RAMSEY, A. M.

Instructor in Biology

HARRY GILBERT MITCHELL, B. S., A. M. *Instructor in Chemistry*

ROSCOE WOODS, B. A.

Instructor in Mathematics

College of Arts and Sciences

WILBERT AMIE CLEMENS, PH. D.	<i>Instructor in Biology</i>
CHESTER HAMLIN GOLDSMITH, B. S.	<i>Instructor in Chemistry</i>
FREDERICK WILLIAM LANE, B. S.	<i>Instructor in Chemistry</i>
ZOETH RANSOM RIDEOUT, A. M.	<i>Instructor in English</i>
MYER SEGAL, A. M.	<i>Instructor in German</i>
THOMAS WILLIAM SHEEHAN, M. A.	<i>Instructor in English</i>
HILDA ESTELLE VAUGHAN, A. M.	<i>Instructor in English</i>
ALBERT AMES WHITMORE, B. S.	<i>Instructor in History</i>
GUY LINTON DIFFENBAUGH, B. A.	<i>Instructor in English</i>
MARGARET JUNE KELLEY, B. A.	<i>Assistant in German</i>
AVA HARRIET CHADBOURNE, B. A.	<i>Assistant in Education</i>
HENRY VIGOR CRANSTON, B. S.	<i>Assistant in Public Speaking</i>

GENERAL INFORMATION

The College of Arts and Sciences offers a course of liberal training equivalent to that of the standard New England college. It designs particularly to meet the needs of three classes of students:

1. Men and women who desire to pursue a cultural college course.
2. Men and women who desire to enter professional schools which require a collegiate degree.
3. Men and women who wish to fit themselves for the profession of teachers in secondary schools, or for school superintendencies.

ADMISSION

The requirements for admission are given in full on pages 42-53. They are practically the same as for other New England colleges, and may be met by a four years preparatory course in a good high school or academy.

FRESHMAN STUDIES

The character of the work of the first year is conditional somewhat upon the subjects offered for admission.

It is recommended that all students in this college register for as much of the required work as practicable in their freshman year, and they are expected to complete the whole of this work by the end of their sophomore year.

General Information

MAJOR SUBJECT

During the freshman year the student does not select a major subject and the registration is more or less prescribed.

Beginning with the sophomore year each student must select, in some one department, work to be pursued three or four years, on the average of five recitations a week. Any one of the following departments may be chosen for major work: Biology, (including Zoology, Botany, Physiology, and Entomology), Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, Spanish and Italian.

The major subject must include work counting not less than six nor more than eight units. In the case of departments in which less work is offered than amounts to six units, this must be made up from such other related departments as the professor under whose direction the major subject is taken may prescribe. The remainder of the student's work may be selected from any department or departments of the university. This must be done with the approval of the head of the department in which the student has chosen his major subject and must bear some useful relation to his other work.

The head of the department in which the student has chosen his major subject becomes his major instructor, and during the remainder of the course this instructor acts as chief adviser in all matters relating to the curriculum, and is the representative of the student before the faculty.

GRADUATION REQUIREMENTS

The College of Arts and Sciences has the following graduation requirements: (One year's work in college is regarded as the equivalent to two years' work in preparatory school.)

Every candidate for the Bachelor of Arts degree is required to complete the following amount of work in college: (a) eight hours prescribed in English; (b) ten or sixteen hours elected in Group 1, of which six or ten hours must be in foreign languages; (c) ten hours elected in Group 2; (d) ten hours elected in Group 3; (e) military science and tactics, two years, three hours a week; (f) physical training, one year, two hours a week.

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A student who enters college with a minimum of four units in foreign languages is required to elect sixteen hours in Group I, of which at least ten hours shall be in foreign languages. A student who enters with more than the minimum of four units credit is required to elect at least ten hours in Group I, of which at least six hours shall be in foreign language.

1. LANGUAGE GROUP.—This is composed of courses in language and literature, including all the courses offered in the departments of English, Public Speaking, German, French, Spanish and Italian, and such courses offered by the departments of Greek and Latin as deal with the Greek and Latin languages and literatures, or presume some knowledge of these languages.

2. SCIENCE AND MATHEMATICS GROUP.—This is composed of the courses offered in mathematics and the biological and physical sciences, including all the courses offered by the departments of Mathematics, Biology, Chemistry, Biological Chemistry, and Physics.

3. SOCIAL SCIENCE GROUP.—This is composed of the courses offered in the departments of History, Economics and Sociology, Philosophy, Education, and Bibliography; and the courses in History, Archeology, Fine Arts, and Biblical Literature offered in other departments and not included in the first group.

4. MILITARY SCIENCE AND TACTICS, two years, three hours a week.

5. PHYSICAL TRAINING, one year, three hours a week.

GENERAL LECTURE COURSE

A course of weekly lectures is given in the College of Arts and Sciences each semester. Attendance is open to all, and credit is granted when the course is completed. This year, the lectures will be in charge of the departments of German, French, and Spanish and Italian in the fall semester, and the department of Biology in the spring semester.

General Information

BACHELOR OF ARTS CURRICULA

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B. A.). The curricula demand 25 units and are regularly completed in four years; but a student of exceptional preparation and application may complete the requirements in three years. Students fitting themselves for professional or technical schools are often encouraged to do this, but prospective teachers are recommended to spend four years in college.

No outline of the curricula in the College of Arts and Sciences is given in the catalog, but students may have such an outline presented to them by applying to the professor in charge of the department in which they are interested. Groups of studies may be made up which would be desirable for students intending to prepare for teaching, or to enter upon the study of law, medicine, or theology.

In this college, 95 out of the 125 required hours must be made with a grade of C or above.

BACHELOR OF PEDAGOGY CURRICULA

Graduates of the Maine normal schools who have completed a course in a Class A high school, and who have had one year of successful experience in teaching, are admitted to the university as candidates for the degree of Bachelor of Pedagogy. Such students are required to complete seventy-five semester hours, of which twelve shall be in the department of Education, and a sufficient number of the remaining hours shall be devoted to some one department to give them a satisfactory equipment for high school teaching.

CURRICULUM IN JOURNALISM

The university has recently established a curriculum in journalism, which extends over four years and includes the following subjects:

Freshman year, English, French, German, or Spanish; Science—Physics, or Chemistry, or Biology; English, 18th and 19th Century Prose; Bibliography; History and Government; Military and Physical Training. Sophomore year, Economics, Sociology, and Social Reforms, alternating with Municipal Government; History of English Literature; English History, alternating with History, Medieval History, Science; Victorian Literature; Military and Physical Training. Junior year, Economics, Advanced Political Economy; Democracy; History of the United States; History of American Literature; Shakespeare, or History of the English Drama; Journalism; Elective, Science, or

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Language, or Philosophy, or Art, three hours, Senior year, Economics, Public Finance, International Law, Business Law; Specialized Writing; Recent History; Literary Criticism; Journalism; Elective, Language, or Philosophy, or History of Education, or Art, five hours.

Students who complete this curriculum will receive the Bachelor of Arts degree for major work in English.

COURSES IN PRE-MEDICAL WORK

The marked increase in the number of pre-medical students in attendance at the university has led the departments concerned to establish definite programs of work for such students. For students who cannot spend more than a single year in pre-medical work, a one-year curriculum is provided which meets the entrance requirements of a number of medical colleges, but prospective medical students are strongly recommended to spend at least two years in such work, not only because a better general education is thus possible, but because a pre-medical course of at least two years is rapidly becoming recognized as essential, as is shown by the fact that thirty-nine of the best medical colleges in this country require for admission two or more years of college work. By arrangement with certain medical colleges a student completing three years at this institution may enter the medical college, and receive his bachelor's degree here at the completion of his first year at the medical college.

One-Year Course

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
General Biology	4	General Biology	4
General Chemistry	4	General Chemistry	5
General Physics	5	Laboratory Physics	2
English	2	English	2
German	3	German	2
		Elective	2

Two-Year Course

FIRST YEAR

General Biology	4	General Biology	4
General Chemistry	4	General Chemistry	5
English	2	English	2
German (or French)	5	German (or French)	5
Military	1	Military	1
Physical Training	$\frac{1}{2}$	Physical Training	1

General Information

SECOND YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Vertebrate Anatomy	4	Animal Embryology	4
Qualitative Analysis	5	Organic Chemistry	5
General Physics	5	Laboratory Physics	2
Psychology (or Sci. Ger.)		Animal Histology	4
(2 or)	3	Military	1
Military	1		

Three-Year Course

FIRST YEAR

General Biology	4	General Biology	4
General Chemistry	4	General Chemistry	5
English	2	English	2
German (or French)	5	German (or French)	5
Military	1	Military	1
Physical Training	$\frac{1}{2}$	Physical Training	1

SECOND YEAR

Vertebrate Anatomy	4	Animal Embryology	4
Qualitative Analysis	5	Quantitative Analysis	5
General Physics	5	Laboratory Physics	2
English	1	English	1
Scientific German	2	Organic Pharmacognosy	4
Military	1	Military	1
		Elective	2

THIRD YEAR

Animal Physiology	4	Animal Histology	4
Materia Medica	3	Organic Chemistry	5
Genetics	2	English	3
English	3	Social Psychology	2
Psychology	3	Elective	2
Elective	2		

DEPARTMENTS OF INSTRUCTION

NOTE: A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (‡) indicates that two and one-half hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the the spring semester.

ART

PROFESSOR HUDDILSTON

Courses extending thru four semesters present an opportunity for the student to cover the entire field of ancient and medieval and modern art history in its various bearings on the history of Europe down to the close of the 18th century, and when taken in succession all but the first course may be counted toward an advanced degree.

Oriental, Greek, and Roman art will be given in a three hour course occupying one year and medieval and modern art will follow this for two semesters for the same number of periods.

While it is not absolutely essential that a student should have taken Courses 1 and 56 in order to be admitted to 57 and 58, it is highly desirable that a sequence should be observed and that the historical evolution of the great art epochs should be approached in such a manner as to contribute the largest educational values.

1. ART.—The history of art in ancient Egypt and western Asia, with special reference to the buildings of the Egyptians as exhibiting the best index to the history of that remarkable race. This chapter will be

a foreword to the beginning of art in southeastern Europe; the Cretan and Mycenaean periods preceding the early Greek period. The history of Greek architecture and sculpture will be given down to the beginning of Athenian supremacy. The extant monuments will be studied in photographs and with the aid of the stereopticon. Lectures, note-books, text-books, and discussions. *Three hours a week.* Given in 1914-15 and alternate years.

3. GENERAL ART HISTORY.—From the Greek age down to the time of the French Revolution. Main emphasis will be laid on the architecture and sculpture of the ancients and the painting of Renaissance and later times. This course is intended for a rapid survey of the subject and is presented with the idea of accommodating such students as can not afford the time required by the twelve semester hours involved in the other courses described in this department. Instruction will be given by lectures, with a text-book for occasional quiz. *Two hours a week.*

56. ART.—Greek and Roman art in their broad relations to the life of classical times; the influence of art as a dominant force in Greece and the effects of Greek culture upon Rome; the passing of Greek art to Latin soil; the notable national monuments of Rome. The existing remains in the European museums as well as the monuments still *in situ* in Italy, Sicily, Greece, and Asia Minor will be gone over with the photographs.

Each student will be expected to acquire some ability in estimating the styles of the various epochs. Lectures. *Three hours a week.* Given in 1914-15 and alternate years.

57. MEDIEVAL ART.—The history of art as influenced and modified by Christianity; Romanesque and Gothic in the West and North; the early centuries of painting in Italy and the influence of the fine arts in the 14th and 15th centuries, particularly in Florence, Siena, Ravenna, Venice, and Rome; the spirit of the Renaissance in Italy, France and Germany under the domination of Italy. Lectures, study of photographs, and investigation of various topics. *Three hours a week.* Given in 1915-16 and alternate years.

58. MODERN ART.—Art in the north of Europe and in Spain, particularly the schools of painting and palace architecture in France. The

age of Louis XIV reflected at Versailles and in the Louvre; the new importance of artists as international factors at Madrid, Paris, and London; social evolution and contemporary history reflected in the successive schools of artists with the gradual ascendancy of France until the time of the French Revolution. Lectures; study of pictures; special subjects for individual investigation. *Three hours a week.* Given in 1915-16 and alternate years.

ASTRONOMY

PROFESSOR HART; ASSISTANT PROFESSOR REED; MR. WILBUR

10. DESCRIPTIVE ASTRONOMY.—An elementary course. The text-book is supplemented by informal lectures, illustrated by lantern slides, drawings of celestial objects, and work in the observatory. Open to all students. *Three hours a week.*

15, 16. GENERAL ASTRONOMY.—Designed for general culture and for students in mathematics and physics. Recitations, lectures, solutions of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics I. *Three hours a week.* Given in 1915-16 and alternate years.

57. PRACTICAL ASTRONOMY.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes, and the establishment of meridian lines. The data for these problems are taken largely from the students' own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, vertical circle, astronomical transit, and zenith telescope. Open to students who have taken Mathematics 1, 3, 9, and Astronomy 10. *Two hours of recitations or lectures and two hours of observatory work a week.*

59, 60. PRACTICAL ASTRONOMY.—The theory and use of the sextant, universal instrument, zenith telescope, transit, and equatorial. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10, and, preferably, 57. *Three hours a week.* Given in 1916-17 and alternate years.

62. HISTORY OF ASTRONOMY.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

Bibliography

BIBLIOGRAPHY

PROFESSOR JONES

1. BIBLIOGRAPHY.—Origin of the alphabet; development of writing; inscriptions; manuscripts; invention of printing; early printed books; modern bookmaking; bookbinding and the care of books; library processes and aids; public documents; periodicals; libraries, ancient and modern. A lecture course, with collateral reading and reference work. *One hour a week.*

Three lectures are given on The Library and its Uses; Classification and the Catalog; and Reference Books and their Use. Required of all freshmen.

BIOLOGY

PROFESSOR CHRYSLER; ASSOCIATE PROFESSOR BORING; ASSISTANT PROFESSOR CONSER; MR. RAMSEY; DOCTOR CLEMENS; MR. LANE

GENERAL BIOLOGY.—Course 1, General Zoology, together with course 2, General Botany, comprise a year's work in General Biology. After completing courses 1 and 2 a student may specialize on either the botanical or the zoological side of Biology. The science requirement in the College of Arts and Sciences may be met by taking Courses 1, 2, and 7.

1. GENERAL ZOOLOGY.—The fundamental principles of animal life, illustrated by examples from the principal groups, and including some work on the anatomy and physiology of higher animals. Required of students taking the curricula in Agriculture and Forestry and Pre-medical work. Class-room, *two hours a week*; laboratory, *†four hours a week*.

2. GENERAL BOTANY.—The fundamental principles of plant life, illustrated by examples from the various groups, but with special attention to the seed-plants. Required of students taking the curricula in Agriculture, Forestry and Home Economics, and Pre-medical work. Prerequisite, Course 1. Class-room, *two hours a week*; laboratory, *†four hours a week*.

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7. PRINCIPLES OF BREEDING, OR GENETICS.—A general treatment of the facts that form the basis of our knowledge of inheritance. Prerequisite, Courses 1 and 2. *Two hours a week.*

8. ENTOMOLOGY.—A study of the structure, life-histories, and classification of insects, illustrated by common farm and forest species; the special insect pests of farm, garden, orchard, and forest, and of domestic animals; methods of control. Some work on animal parasites other than insects is included. Prerequisite, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†four hours a week.*

9. PLANT TAXONOMY AND HISTOLOGY. 10. PLANT PHYSIOLOGY AND PATHOLOGY.—A combined course for one year for students in Agriculture, consisting of: practice in the identification of the higher plants; microscopic work on the cell, tissues, and organs of the higher plants; a study of the functions of plants, including nutrition, growth and response; a study of the diseases of plants, especially those caused by fungi. Prerequisite, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†six hours a week.*

NOTE. Pharmaceutical botany is given in Courses 14 and 15, which are designed to meet the needs of students in Pharmacy, according to the syllabus of the National Committee.

14. ELEMENTARY BOTANY.—The fundamentals of the subject. Required of Two Year Pharmacy students. Class-room, *one hour a week*; laboratory, *†four hours a week.*

15. PHARMACEUTICAL HISTOLOGY.—The technique of preparation and study of the tissues of the higher plants. Prerequisite, Course 14. Class-room, *one hour a week*; laboratory, *†four hours a week.*

17. WOOD IDENTIFICATION.—The identification of the various commercial woods by means of the unaided eye and the microscope. Open to students in Chemical Engineering, and to others by permission. *†four hours a week* (counts one unit). Second half of fall semester.

51. VERTEBRATE ANATOMY.—A comparative study of the organ systems of vertebrates, with the dissection of the dogfish and cat. Prerequisite, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†four hours a week.*

Biology

52. ANIMAL EMBRYOLOGY.—A study of the fundamental principles of development, and the formation of organ systems and tissues in vertebrates. Laboratory work on fish, frog and chick. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, †*four hours a week*.

53. ADVANCED ANIMAL PHYSIOLOGY.—A study of the activities of cells and organ systems, with experimental work on the muscles, nerves, circulation, etc., in frog and man. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, †*four hours a week*.

54. ANIMAL HISTOLOGY.—A study of the structure of protoplasm, cells, and tissues. Practice in microscopical technique. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, †*four hours a week*.

61. PLANT HISTOLOGY.—The microscopic structure of the higher plants: the cell; the various tissues; the root, stem, leaf, and spore-bearing organs; the adaptations of plants to external conditions, considered from the standpoint of structure; killing, sectioning, staining, and mounting of plant tissues. Prerequisite, Courses 1 and 2. Class-room, *two hours a week*; laboratory, †*four hours a week*.

62. PLANT PHYSIOLOGY.—The plant is considered from the standpoints of its activities; absorption and transport of raw material; manufacture, transport, and storage of food; growth; movement in response to stimuli. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, †*four hours a week*.

63. PLANT TAXONOMY AND MORPHOLOGY.—The identification of seed-plants by the use of a manual; the structure and relationships of vascular plants from the evolutionary standpoint. Prerequisite, Course 51. Class-room, field and laboratory work; *time to be arranged*, giving four units.

64. PLANT ECOLOGY.—Presents briefly two aspects of the subject: (1) Physiographic ecology studied in the field as far as the season permits; (2) Structural ecology, viz., the histological features char-

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acteristic of plants growing in extreme habitats, and of those having special modes of nutrition. Prerequisite, Course 9 or 61. Class-room, *one hour a week*; laboratory, †*four hours a week*. Given in 1915-16 and alternate years.

65. PLANT PATHOLOGY.—The diseases of plants, especially those caused by fungi; destruction of timber by fungi; methods of combating plant diseases. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, †*two hours a week*. Given in 1916-17 and alternate years.

67, 68. FOREST BOTANY.—A systematic study of the trees of North America. The course includes dendrology and forest ecology. Prerequisite, Courses 1 and 2. Class-room, *two hours a week*; field or laboratory, †*four hours a week*.

71, 72. SEMINAR.—Preparation and discussion of papers dealing with recent advances in zoology and botany. Open to seniors and graduate students. *One hour a week*.

73, 74. THESIS.—Students in the College of Agriculture specializing in biology may prepare a thesis on some subject approved by the head of the department. *Time varies*.

75, 76. ADVANCED ZOOLOGY.—This course offers an opportunity for special zoological work along lines suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. In general each student is given a problem for investigation and encouraged to devise methods for its solution. *The time varies and the work may be continued a number of semesters*.

77, 78. ADVANCED BOTANY.—This course offers an opportunity for special work in botany along the lines best suited to the future plans of the student. It may consist of laboratory work, field work, or reading, or a combination of all three. Courses which have recently been given under this caption include: morphology of pteridophytes; structure and technology of woods; structural and physiographic ecology; advanced plant physiology; special problems assigned to individuals. *The time varies and the work may be continued a number of semesters*.

ECONOMICS AND SOCIOLOGY

PROFESSOR STEPHENS; ASSOCIATE PROFESSOR MATTHEWS

For undergraduates only

1a. ELEMENTS OF ECONOMICS.—An introductory course dealing with the general principles and problems of modern economic activity, production, distribution, and consumption; value, commerce, labor problems, and various other topics in this field of study. *Three hours a week.*

1b. ELEMENTS OF ECONOMICS.—In general, similar to 1a, but abbreviated and modified to meet the needs of technical and agricultural students. *Two hours a week.*

2a. MONEY AND BANKING.—A course introductory to the study of money, banking, and finance. The history of currency and banking in the United States and the leading countries of the world. *Three hours a week.*

2b. MONEY AND BANKING.—Essentially similar to 2a, but planned especially for students in the Colleges of Technology and Agriculture. *Two hours a week.*

3. ELEMENTS OF POLITICS.—An introductory course dealing with the basic principles of government, nature of the state, sovereignty, liberty, governmental structures, political parties. *Two hours a week.*

6. BUSINESS LAW.—The legal principles of modern business; contracts, agency, corporations, partnerships, bailments, guaranty, insurance. This course is intended primarily for seniors. *Three hours a week.*

7, 8. ELEMENTARY AMERICAN GOVERNMENT.—Open to freshmen only, in connection with History 7 and 8. *Two hours a week.*

For graduates and undergraduates

52. PUBLIC FINANCE.—Various systems for the collection of public revenue in America and Europe; governmental budgets; taxation,—incidence and shifting, general property, customs and excises, mort-

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gage, insurance, income, inheritance, corporation, single tax. *Three hours a week.*

55. GENERAL SOCIOLOGY.—The principles underlying normal social processes and relations; societal development and selection. *Three hours a week.*

56. SOCIAL PATHOLOGY.—The dependent, defective, and delinquent classes; their causes, magnitude, methods of prevention, and amelioration. *Three hours a week.*

60. PUBLIC UTILITIES.—Municipal utilities in the United States and Europe; their economic, social, and legal principles and problems; regulation by commission; public and private ownership. *Two hours a week.* Given in 1915-16 and alternate years.

63. GOVERNMENT OF EUROPE.—A comparative study of the modern government of the principal countries of Europe; party development and current problems national and local. *Three hours a week.* Given in 1915-16 and alternate years.

65. SOCIALISM AND SOCIAL REFORM.—Socialism as a movement, a philosophy, and a program; the various schools of socialistic thought; anarchism; syndicalism; social reform. *Two hours a week.* Given in 1916-17 and alternate years.

66. MUNICIPAL GOVERNMENT.—The forms of government and the principal problems of American and European cities; recent movements for social and civic betterment. *Two hours a week.* Given in 1915-16 and alternate years.

68. AMERICAN GOVERNMENT.—The principles and interpretation of the American federal, state, and local governments; the study of American problems and the growth of political parties. *Three hours a week.* Given in 1916-17 and alternate years.

71. LABOR PROBLEMS.—The evolution of organized labor; present-day industrial problems of trade unions, woman and child labor, immigration, employers' associations, agencies of industrial peace. *Three hours a week.* Given in 1915-16 and alternate years.

Economics and Sociology

74. TRANSPORTATION.—The historical development of transportation in the United States; railway organization, financing, rate-making; public regulation and ownership of railroads in leading European countries; federal and state legislation and regulation. *Three hours a week.* Given in 1916-17 and alternate years.

75. BUSINESS ORGANIZATION.—The origin and development of the corporation; significance of large-scale enterprise; the economic and legal aspects of business combinations; corporation finance; governmental regulation. *Three hours a week.* Given in 1916-17 and alternate years.

76. BUSINESS MANAGEMENT.—The methods of business; system; efficiency; cost accounting; principles of buying and selling. *Three hours a week.* Given in 1915-16 and alternate years.

79. INTERNATIONAL LAW.—The nature, sources, evolution, and recent modification of international law; significance of the Great War; the position and influence of the United States. *Three hours a week.* Given in 1916-17 and alternate years.

82. RURAL SOCIOLOGY.—The social factors affecting country life; the economics of farming; rural co-operative organizations; the movement for the improvement of rural life. *Two hours a week.* Given in 1916-17 and alternate years.

85. AMERICAN COMMERCE.—American commercial relations with foreign countries; the development of foreign trade; the problems and methods of international business. Spanish America is treated the first half-year. *Two hours a week.* Given in 1915-16 and alternate years.

86. AMERICAN COMMERCE.—A continuation of Course 85, with emphasis upon American trade relations with the countries of Europe and the Far East. *Two hours a week.* Given in 1915-16 and alternate years.

89. AMERICAN DIPLOMACY.—A review of a century of American diplomatic relations; famous treaties and prominent men and administrations connected with such negotiations. Pan-American diplomacy constitutes the subject of study the first semester. *Two hours a week.* Given in 1916-17 and alternate years.

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90. AMERICAN DIPLOMACY.—A continuation of Course 89, chief attention being given to diplomatic relations with the countries of Europe and the Orient. *Two hours a week.* Given in 1916-17 and alternate years.

93. THE FAMILY.—An historical consideration of the origin and development of the family; the legal and economic relations of its members; its significance as an institution; its pathological manifestations. *Two hours a week.* Given in 1915-16 and alternate years.

Primarily for graduates

102. ECONOMIC THEORY.—A critical study of modern theories of wealth and its distribution; the contributions to theory of the classical, historical, and Austrian schools; current writers; *Two hours a week.*

107, 108. SEMINAR IN AMERICAN GOVERNMENT.—Given at the option of the instructor to a limited number of students who have shown special ability in the study of American government. *Two hours a week.*

109, 110. SEMINAR IN ECONOMICS. Extended original investigation upon some specific topic to be selected by students properly qualified to engage in economic research. *Two hours a week.*

EDUCATION

PROFESSOR RICHARDSON; ASSOCIATE PROFESSOR PEARCE; MISS CHADBOURNE

For undergraduates and graduates

51. HISTORY AND PRINCIPLES OF EDUCATION.—The principles underlying modern educational theory and practice; the historical development of our present school system and school curriculum; the professional training of the teacher; the biological bases of education; a survey of the history of education from the Athenians to the present time. *Three hours a week.*

52. HISTORY AND PRINCIPLES OF EDUCATION.—A continuation of Course 51. A study of various phases of educational theory and

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practice; their historical development, the principles underlying them, and their application to present conditions. The school as a social institution; public support and control of education; interest; correlation; formal discipline. An intensive study by each student of some topic more or less directly connected with his major work. Recitations, readings, reports, and discussions. *Three hours a week.*

54. CONTEMPORARY MOVEMENTS IN EDUCATION.—A critical examination of contemporary principles and movements influencing present educational thought and practice based chiefly on the study of the doctrines of Parker, Harris, Hall, Montessori, and Dewey. *Three hours a week.*

55. SOCIAL EDUCATION.—The purpose of this course is to formulate the social concept of education; to make a tentative statement of the social principles underlying the educational aim and process. The various educational agencies—school, home, community, church, and state—will be discussed from the sociological viewpoint. Special emphasis is placed on present social demands. *Three hours a week.* Given in 1915-16 and alternate years.

61. ADMINISTRATION AND SUPERVISION OF EDUCATION.—The organization and administration of school systems; a study of theoretical and practical aspects; relation of national government to education; modes of organization of state, city, and rural educational agencies; forms of educational control; comparative study of organization and administration of education in Canada and in one European country; school laws; financial support of schools; duties and powers of school boards, superintendent, and teachers; school buildings and grounds; heating, lighting, and ventilation; scientific management of schools. *Three periods a week.*

62. ADMINISTRATION AND SUPERVISION OF EDUCATION.—A continuation of Course 61. The classification, grading, promotion, and retardation of pupils; the training, certification, appointment, tenure, and supervision of teachers; general aspects of the course of study; mental and physical tests of pupils; school records and accounts. *Three hours a week.*

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72. THE PEDAGOGY AND PSYCHOLOGY OF HIGH SCHOOL SUBJECTS.—A study of the principles underlying the methods of instruction of the various high school subjects, including the place and function of these subjects in high school and special discussion of mental processes involved in their study. *Three hours a week.*

73. SECONDARY EDUCATION.—The development of our present system of secondary schools; the function of the secondary school, its relation to the elementary school, to the college, and to the social state; the adolescent; the course of study; the equipment; secondary school activities; organization and management of the secondary school. *Three hours a week.*

74. METHODS IN TEACHING AGRICULTURE.—The present status of agricultural instruction in secondary schools, the application of principles of pedagogy to the teaching of agriculture and the organization of agricultural materials into a course. Required of all taking the practice course in the teaching of agriculture. *Two hours a week.*

75, 76. PRACTICE TEACHING.—Class teaching of regular grammar school and high school studies in schools of Orono and Old Town. There are special conferences with instructors in charge of these courses. Other courses in practice teaching may also be arranged with credit in proportion to time and character of work. Prerequisites, one semester's work in education. *Five periods a week*; four hours credit. Practice teaching in agriculture in connection with School Course in Agriculture. *Three periods a week*; two hours credit.

77, 78. CLASS MANAGEMENT.—General conduct of classes; art of questioning; oral and written tests; systems of marking; observation of classes. Required of all taking regular practice course. *One hour a week.*

81. VOCATIONAL EDUCATION.—The history and status of vocational education in the United States and Europe; pertinent lessons to be learned from foreign systems; attitude of organized labor; attitude of employers of labor; relation to manual training; legislation; experiment of private philanthropic institutions, industrial corporations, and public schools; articulation with present school system; placement;

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employment; supervision; vocational analysis; cumulative school records; vocational guidance surveys and vocational bureaus. *Three hours a week.* Not given in 1915-16.

Primarily for graduates

101, 102. SEMINAR IN EDUCATION.—Current methods in measuring the products of education, including standard tests in writing, reading, spelling, drawing, and English. Experiments in the learning process of these subjects will be studied. Each student will be required to work out some one phase of the subject by the application of the measurements to the schools in Orono or other towns. This course is recommended for superintendents and principals. *Two hours a week.*

SUMMER TERM

ASSOCIATE PROFESSOR PEARCE

Three of the following courses will be given. The choice of courses will be determined largely by the number desiring the work. Advance registration will be especially considered.

61s. SCHOOL PROBLEMS.—This course is especially designed for superintendents, principals, and others who wish to make a study of problems of school organization, administration and supervision. The topics and details dealt with will be determined by the needs of those taking the course. The following topics are suggested: classification, promotion, retardation, acceleration, and elimination of pupils; the course of study; school programs; consolidation; the training, certification, appointment, promotion, tenure and supervision of teachers; and the widening scope of public education. Brief reports on assigned reading will be required weekly.

77s. CLASSROOM MANAGEMENT AND SCHOOL HYGIENE.—The purpose of this course is to consider the fundamentals of class instruction and the hygiene of the school and the teaching process. The following are some of the points considered: routine and habit; the daily program; order and discipline; penalties; problem of attention; testing results; preserving hygienic conditions in the classroom; ventilation; contagious diseases; eye, ear and mouth defects; fatigue and overpressure; home study; seating of pupils; recesses; etc. Some attention will be given to methods of teaching personal and social hygiene.

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51s. **EDUCATIONAL CLASSICS.**—This course embraces the study of representative pedagogical writings of modern times. Selections will be made from the following: Rousseau's *Emile*, Pestalozzi's *Leonard and Gertrude*, Herbart's *Outlines of Educational Doctrine*, Froebel's *The Education of Man* and Dewey's (1) *The School and Society*, (2) *The Child and the Curriculum*, (3) *Interest as Related to Will*. The aim is to ascertain (1) their inner consistency, (2) their relation to the civilization of their times, (3) the elements which they contribute to sound educational philosophy.

55s. **THE PRINCIPLES OF EDUCATION.**—The design of this course is to set forth (1) the meaning and aims of education as related to the individual and society; (2) the relative educational value of studies and their organization into the curriculum, as indicated by the recapitulation, culture epoch, formal discipline and other theories; and (3) the methods of teaching as determined by the mental process involved, particularly, instinct, habit, attention, interest, apperception, induction and deduction.

GRADUATE COURSES.—One or more courses will be offered each summer for those who wish to undertake work toward an advanced degree. For the summer of 1915, Courses 51s, 55s, and 77s are the specific ones offered, but it may be possible to arrange other courses for any who have had adequate preparation and who wish to pursue a special line of work.

In addition to the regular courses, opportunity will be given for the investigation of special problems in education. Teachers, whether working for credit or not, will be given the advice and help necessary for such investigation. If teachers who wish to do work of this kind will consult with the instructor some weeks in advance, arrangements may be made by which special material for the study may be collected.

CREDIT TOWARDS PROFESSIONAL CERTIFICATES.—By arrangement with the State Department of Education, certain courses given in the Summer Term may be counted toward fulfilling the requirements of the professional secondary certificate. A rotation of courses will be arranged from year to year such that it will enable teachers to secure this certificate by attendance at several sessions of the Summer Term. Courses 51s, 55s, and 77s, are the courses for which such credit will be given.

ENGLISH

PROFESSOR GRAY; PROFESSOR G. A. THOMPSON; ASSISTANT PROFESSOR McANNEY; MR. CLARK; MR. RIDEOUT; MISS VAUGHAN; MR. SHEEHAN; MR. DIFFENBAUGH

Eight hours in English are required for the Bachelor of Arts, and ten hours (men) or thirteen (women) for the Bachelor of Science degrees. These credits are obtained somewhat differently in the several colleges: (1) in the College of Arts and Sciences by taking, during the freshman year, Courses 5, 6 and in Public Speaking Courses 1, 2; and during the sophomore year, Courses 9, 10, or 11, 12, or 27, 28, or 29, 30, or 37, 38; (2) in the College of Agriculture by taking, in the freshman year, Courses 7, 8; in the sophomore year, Courses 3, 4 in Public Speaking; in the junior year, Courses 17 and 18; women in Home Economics, in the freshman year, Courses 5, 6; and during the sophomore year, Courses 29, 30; and during the senior year, Course 45; (3) in the College of Technology by taking Courses 7, 8; and in the sophomore year, Courses 3, 4 in Public Speaking; and in the senior year Course 15.

English 5, 6 or 7, 8 are prerequisite, in all colleges, for courses of the sophomore year. The required courses of the freshman and sophomore years may not be postponed until the junior or senior year, without permission of the head of the department.

Elective courses in this department should be taken, so far as practicable, in the following order:

First year: Courses 29, 30.

Second year: Courses 29, 30, 27, 28, perhaps 51 and 52, 35, 36, 39, 40, 31.

Third year: Courses 53, 54, 31 and 32, 41 and 42, 55 and 56, 13, 35, 36, 37 and 38, 19 and 20, 33 and 34, 39, 40, 21, 61, 62, 23, 24.

Fourth year: Courses 31 and 32, 55 and 56, 13, 53 and 54, 21, 61, 62, 19 and 20, perhaps 59, 60, 66, 67, 68, 25, 26.

Students are expected to consult the head of the department, if they find it necessary to make a change.

For undergraduates only

5. ENGLISH COMPOSITION AND RHETORIC.—The object of this course is to give training in writing correct and clear English, with attention also to oral expression. The theoretical work consists of the study of the fundamental principles of good usage in English writing; and of

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the expository form of composition, with some attention to the narrative and descriptive forms. In illustration of the theory many selections from literature are studied. Weekly themes and monthly essays, with conferences. This course is prescribed for freshmen in the College of Arts and Sciences. *Two hours a week.*

6. ENGLISH COMPOSITION AND RHETORIC.—The object of this course is the same as in Course 3. The theoretical work consists of the more elementary principles of argumentation; practice in making outlines and briefs; weekly themes and monthly essays. This course is prescribed for freshmen in the College of Arts and Sciences. *Two hours a week.*

7. ENGLISH COMPOSITION.—The theory and practice of composition adapted to the needs of technical students. The writing is mainly expository; weekly themes and monthly essays, with conferences. This course is prescribed for freshmen in the Colleges of Technology and Agriculture. *Three hours a week* in the College of Technology and *two hours a week* in the College of Agriculture.

8. ENGLISH COMPOSITION.—The theory and practice of composition adapted to the needs of technical students. The writing is mainly argumentative, with attention to the less literary aspects of narrative and descriptive writing. Weekly themes and monthly briefs and essays, with conferences. This course is prescribed for freshmen in the Colleges of Technology and Agriculture. *Three hours a week* in the College of Technology and *two hours a week* in the College of Agriculture.

9, 10. EXPOSITORY COMPOSITION.—A detailed and fairly complete study of the theory of exposition, with attention to prose style. Monthly essays and conferences. *Two hours a week.* Prerequisites, Courses 5, 6 or 7, 8.

11, 12. ARGUMENTATIVE COMPOSITION.—An advanced course in the theory and practice of argumentation. Monthly essays and conferences. *Two hours a week.* Prerequisites, Courses 5, 6 or 7, 8.

13. ADVANCED COMPOSITION.—Informal lectures on various literary forms and styles, with a large amount of writing. The object of the course is to cultivate clearness, facility, and individuality of style, and

English

to train students to perceive and appreciate these qualities in the best books. Specialized writing, as dramatic criticism, for students in journalism.

Students looking forward to newspaper or magazine work, to a literary career, or to teaching, will find this course especially helpful.

Prerequisites: Courses 5, 6, 9, 10, or 11, 12, 29, 30. *Two hours a week.*

15. BUSINESS ENGLISH.—Correspondence, mechanical details, reports, preparation of manuscript for theses, and for technical journals. Prescribed for seniors in the College of Technology. *Two hours a week.* Fall semester.

17. COMPOSITION.—This course gives practice in technical journalism and news writing, in making reports and summaries of investigation, and in the preparation of theses. Open only to juniors and seniors in the College of Agriculture. *Two hours a week.*

18. LITERARY TYPES.—Great books, typical of the several forms of literature, will be read. An endeavor will be made to cultivate an appreciation of the best, both in prose and poetry, and to acquire critical knowledge of what constitutes a great drama, a great epic, a great lyric, a great novel, etc. Open only to juniors and seniors in the College of Agriculture. *Two hours a week.*

23, 24. JOURNALISM.—This course gives training and practice in the fundamentals of newspaper writing: such as, observation or the seeing stories that have unique interest, "turning in tips," developing "news," "feature," and "human interest" stories, writing in journalistic style. A comparative study is made of the leading newspapers. *Three hours a week.*

25, 26. JOURNALISM.—Practical newspaper work and technic. *Three hours a week.* Prerequisite, Courses 23, 24.

27, 28. PRACTICAL JOURNALISM.—This course consists in practical work in connection with student publications. *Two hours a week.*

29. HISTORY OF ENGLISH LITERATURE. An outline course, extending to the close of the sixteenth century, including extensive reading in the English classics. Lectures, assigned reading, and reports. This course

College of Arts and Sciences

is introductory to all other courses in English literature, and should be taken in the sophomore year.

Those who can elect only one course in English will probably find this course best suited to their needs. *Three hours a week.*

30. HISTORY OF ENGLISH LITERATURE.—A continuation of Course 29, covering the periods from the seventeenth century to the present day. *Three hours a week*

31. ENGLISH PROSE IN THE EIGHTEENTH CENTURY.—Among the writings studied are selections from Addison, Swift, Johnson, Goldsmith, and Burke. *Two hours a week.*

32. ENGLISH PROSE IN THE NINETEENTH CENTURY.—Among the writings studied are selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. *Two hours a week.*

33. SHAKESPEARE AND THE ENGLISH DRAMA.—A lecture course giving a brief historical survey of the origin and development of the English drama to the time of Shakespeare, with assigned reading in the old dramatists. Introductory lectures on the life and art of Shakespeare, with a study of an early and a late comedy, and an early and a late tragedy. *Three hours a week.* Given in 1915-16 and alternate years.

34. SHAKESPEARE.—A detailed study of three or four great tragedies of Shakespeare. *Three hours a week.* Given in 1915-16 and alternate years.

35. ELIZABETHAN POETRY.—A study of Elizabethan non-dramatic poetry, showing its rise and development, its dominant forms and characteristics, and its relations to the life and thought of the age. *Two hours a week.* Given in 1915-16 and alternate years.

36. ELIZABETHAN PROSE AND POETRY.—The study of Elizabethan poetry will be completed, and the large part of the semester given to the study of the prose of the period. *Two hours a week.* Given in 1915-16 and alternate years.

37, 38. VICTORIAN POETS.—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, with additional assigned reading in the poets.

English

Special attention is given to the art of Tennyson and Browning. *Two hours a week.*

39. HISTORY OF ENGLISH LITERATURE.—A lecture course giving a brief survey of the development of English literature, extending to the close of the sixteenth century. Assigned reading and reports. *Two hours a week.* Open to technical students only.

40. HISTORY OF ENGLISH LITERATURE.—This course continues the work of 39, covering the periods from the seventeenth century to the present time. *Two hours a week.* Open to technical students only.

41. ENGLISH ROMANTIC POETS.—A general view of the English Romantic Movement, with some attention to the characteristics of the poetry that preceded this movement; a study of selected poems from the writings of Thompson, Collins, Gray, Cowper, and Burns. *Two hours a week.* Given in 1915-16 and alternate years.

42. ENGLISH ROMANTIC POETS.—A continuation of Course 41. Study of selected poems from the writings of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. *Two hours a week.* Given in 1916-17 and alternate years.

43, 44. AMERICAN LITERATURE.—A lecture course giving an historical outline, with assigned reading. *Two hours a week.* Prerequisites, Courses 29 and 30.

45. COMPOSITION AND LITERATURE.—(a) Practice in forms of writing especially suited to the needs of women, as the preparation of a club paper, etc. (b) A study of the best literature for childhood. Required of seniors in Home Economics and elective for other senior women. *Three hours a week.*

• For graduates and undergraduates

51. OLD ENGLISH (ANGLO-SAXON).—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of old English to modern English and modern German.

College of Arts and Sciences

Lectures on the literature of the period 700-1000. This course is advised for those intending to teach English, and for all who wish a thorough knowledge of the language and literature. *Three hours a week.* Given in 1915-16 and alternate years.

52. BEOWULF.—This, the oldest English epic, is read with attention to text, meter, literary, and archeological interest. *Three hours a week.* Prerequisite, Course 51.

53. MIDDLE ENGLISH LITERATURE.—Elements of the grammar of Middle English; reading of the texts in Emerson's Middle English Reader. Langland's Piers Plowman is read with attention to text, meter, and literary interests. *Three hours a week.* Prerequisite, Course 51. Given in 1916-17 and alternate years.

54. CHAUCER.—All of the Canterbury Tales and some of the Minor Poems are read with attention to language, meter, historical and literary interests. *Three hours a week.* Given in 1916-17 and alternate years.

55, 56. THE NOVEL.—A study of the development and technique of the English novel. At least eight of the greatest English and American novels will be read. *Two hours a week.*

57. CYNEWULF.—Reading of The Christ and The Elene; and possibly some of the poems attributed to Cynewulf, as the Phenix, and the Juliana, with attention to text, meter, historical and literary interests. Prerequisites, Courses 51, 52. *Three hours a week.*

59, 60. THE VICTORIAN PERIOD (1830-1900).—A study of the literary, social, and scientific movements in England and America, the rise of periodical literature tractarianism; pre-Raphaelitism, with special attention to Carlyle, Emerson, Newman, Matthew Arnold, Ruskin, Tennyson, Clough, Robert Browning, D. G. Rossetti, Dickens, Thackeray, George Eliot, Jane Austen, and the Brontes. *Two hours a week.*

61, 62. HISTORY OF THE ENGLISH DRAMA.—Special attention is given to the immediate predecessors and the contemporaries of Shakespeare. *Two hours a week.* Given in 1916-17 and alternate years.

English

63. TEACHERS' COURSE IN ENGLISH.—A. This course is conducted in cooperation with the department of Education. It is open only to major students in English, and of these only, as a rule, to seniors and graduate students. The work is mainly practical with some theory. See Education 75 and 76. B. The aims, methods, and problems of teaching English composition and literature in high school and in college. Open to seniors who expect to teach English. *Two hours a week.*

66. POETICS AND PROSODY.—A study of the various poetic forms, as lyric, epic, drama, and the English meters. *Two hours a week.*

67, 68. THE EIGHTEENTH CENTURY (1700-1770).—A study of the rise of prose, the essay, the magazine, the novel, and the beginnings of romanticism, with especial attention to Addison, Steele, Swift, Defoe, Pope, Johnson, Goldsmith, Gray. Lectures, assigned reading, and reports. *Two hours a week.*

Primarily for graduates

101, 102. HISTORY AND THEORY OF LITERARY CRITICISM.—*Three hours a week.*

103, 104. TYPES OF LITERATURE.—A comparative study of various literary forms. *Three hours a week.* Prerequisite, Courses 101, 102.

105, 106. MILTON AND HIS AGE.—This course is devoted to problems of form, sources, and literary influences and relations. *Two hours a week.*

107, 108. SEMINAR.—The subject varies from year to year, and is determined by the needs of students in attendance.

SUMMER TERM

PROFESSOR GRAY; MR. KEYES

55. ENGLISH COMPOSITION AND RHETORIC.—Considerable attention is given in this course, by way of review, to matters of good and bad usage, the sentence, and the paragraph. The advanced work embraces

College of Arts and Sciences

the study of rhetoric especially relative to expository writing. Daily themes and weekly essays, with conferences.

6s. ENGLISH COMPOSITION AND RHETORIC.—This course comprises the theory and practice of argumentative writing. Simple briefs, short and long written arguments, with conferences.

19s. Special course in argumentation, particularly for students and teachers interested in preparation for the Maine State Interscholastic Discussion League.

33s. SHAKESPEARE AND THE ENGLISH DRAMA.—Lectures and discussions on Shakespeare's art. Four plays are studied in detail; and several more are required to be read. The origin and development of the English drama is outlined by lectures and illustrated by stereopticon. The Oxford Shakespeare, complete in one volume, is recommended.

51s. OLD ENGLISH (Anglo-Saxon).—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of Old English to Modern English and Modern German. Lectures on the literature of the period 700-1000. This course is essential for teachers of English, and for all who wish a thoro knowledge of the language and literature. This course may count three hours credit toward the master's degree. Open to graduate students and advanced undergraduates.

52s. BEOWULF.—This, the oldest English epic, is read with attention to text, meter, literary and archeological interests. Prerequisite, Course 51s. This course may count three hours credit toward the master's degree.

Either Course 51s or 52s will be given, according to demand.

63s. TEACHERS' COURSE.—The aims, methods, and problems of teaching English composition and literature in the high school will be discussed and illustrated. Stress will be placed, this session, upon the preparation of the teacher, drill in the criticism of essays and the consideration of labor-saving devices connected therewith, interest as a factor in the

French

study of literature, development of ideas as a factor in composition, and the discussion of the important recently published articles on the teaching of English. The plan of the course is sufficiently flexible for the presentation of special topics or problems by the teachers in attendance, and so far as practicable, their problems will receive attention. This course may count three hours credit toward the master's degree.

103S. TYPES OF LITERATURE.—This course is an introduction to the study of comparative literature. Great books, typical of the principal forms of literature will be read. The aim of the reading and discussions will be to cultivate an appreciation of the best and to lay the foundations for a critical knowledge of what constitutes a great epic, drama, lyric, novel, etc. This course may count three hours credit toward the master's degree. Open to graduate students; and undergraduates only by special permission. The course pre-supposes considerable knowledge of literature.

FRENCH

PROFESSOR SEGALL; MR. KUENY

For undergraduates

1, 2. ELEMENTARY FRENCH.—Grammar, pronunciation, composition, conversation, translation. *Five hours a week.*

3. INTERMEDIATE FRENCH.—Translation, grammar, composition, conversation. Open to students who have taken Courses 1, 2, or an equivalent. *Three hours a week.*

4. INTERMEDIATE FRENCH.—A continuation of Course 3. *Two hours a week.*

5. ADVANCED FRENCH.—Translation; drill in conversation. Open to students who have taken Courses 3, 4, or an equivalent. *Three hours a week.*

6. ADVANCED FRENCH.—A continuation of Course 5. *Two hours a week.*

College of Arts and Sciences

7. ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.—Open to students who have taken Courses 1, 2, or an equivalent. *Two hours a week.*

8. ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.—A continuation of Course 7. *Two hours a week.*

9. ADVANCED FRENCH CONVERSATION AND COMPOSITION.—Open to students who have taken Courses 7, 8, or an equivalent. *Two hours a week.*

10. ADVANCED FRENCH CONVERSATION AND COMPOSITION.—A continuation of Course 9. *Two hours a week.*

For graduates and undergraduates

51. INTRODUCTION TO THE HISTORY OF FRENCH LITERATURE.—Lectures, recitations. Open to students who have taken Courses 5 and 6. *Three hours a week.*

52. INTRODUCTION TO THE HISTORY OF FRENCH LITERATURE.—A continuation of Course 51. *Three hours a week.*

53. THE MODERN FRENCH NOVEL.—Lectures, recitations. Open to students who have taken Courses 5, 6. *Two hours a week.*

54. THE MODERN FRENCH NOVEL.—A continuation of Course 53. *Two hours a week.*

55. THE MODERN FRENCH DRAMA.—Lectures, recitations. Open to students who have taken Courses 5, 6. *Two hours a week.*

56. THE MODERN FRENCH DRAMA.—A continuation of Course 55. *Two hours a week.*

57. HOW TO TEACH FRENCH.—Lectures, recitations, practical exercises. Open to seniors who have taken Courses 9 and 10, or an equivalent. *One hour a week.*

58. HOW TO TEACH FRENCH.—A continuation of Course 57. *One hour a week.*

French

Primarily for graduates

101, 102. MOLIERE.—*Two hours a week.*

SUMMER TERM

PROFESSOR SEGALL; MR. KUENY

For undergraduates

5s. ADVANCED FRENCH.—This course is an equivalent of Course 5.

6s. ADVANCED FRENCH.—This course is an equivalent of Course 6.

7s. ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.—This course is an equivalent of Course 7.

8s. ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.—This course is an equivalent of Course 8.

Primarily for graduates

57s, 58s. HOW TO TEACH FRENCH.—This course is an equivalent of Courses 57, 58.

101s. RABELAIS.—Renaissance and Reformation. Given in 1916.

102s. MOLIERE.—The classic period. Given in 1917.

103s. VOLTAIRE.—The revolutionary period. Given in 1918.

104s. VICTOR HUGO.—The romantic period. Given in 1919.

GEOLOGY

The courses in in this subject are described with those in the department of Biological Chemistry

College of Arts and Sciences

GERMAN

PROFESSOR G. W. THOMPSON; ASSISTANT PROFESSOR DRUMMOND; MR. BAIN; MR. FLOYD; MR. SEGAL; MISS KELLY

For undergraduates only

1, 2. FIRST YEAR GERMAN.—A course for beginners, open only to students who are registered in the College of Arts and Sciences. Grammar; composition; reading of numerous texts; conversation. *Five hours a week.*

3, 4. SECOND YEAR GERMAN.—A course for students who have had Course 1, 2 or the equivalent. The grammar study, composition and text readings are progressively advanced from Course 1, 2. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

5, 6. THIRD YEAR GERMAN.—A course for students who have had Courses 1, 2, 3, 4 or the equivalent. Texts include 18th and 19th century literature; advanced composition; lectures on the history of German literature. *Three hours a week.*

7, 8. FOURTH YEAR GERMAN.—A course for students who have had Courses 1, 2, 3, 4, 5, 6 or the equivalent. Critical reading of standard works principally from the 19th century literature; lectures on the structure of the drama; advanced composition with original themes. *Three hours a week.*

NOTE. These courses are carefully graded in difficulty and are to be taken in the order named. For the convenience of students not registered in the College of Arts and Sciences who wish to begin the study of German the following courses are offered:

Course 1, 2. A separate division for those who wish to pursue beginners' German five hours a week, or Courses 9, 10 and 11, 12 in which the work of Course 1, 2 may be completed in two years.

9, 10. ELEMENTARY GERMAN.—Study of grammar, composition, and easy texts which contain a practical vocabulary. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

German

11, 12. CONTINUATION OF COURSE 9, 10.—More advanced study of grammar, composition and texts. Open to students who have completed Course 9, 10 or the equivalent. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

NOTE. Course 11, 12 is not an equivalent for Course 3, 4. Courses 9, 10 and 11, 12 are not open to students registered in the College of Arts and Sciences.

13, 14. ELEMENTARY GERMAN CONVERSATION.—*Three hours a week.*

15, 16. SCIENTIFIC GERMAN.—Separate divisions for Biology and Chemistry students. Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.*

17, 18. ADVANCED GERMAN CONVERSATION AND COMPOSITION.—*Two hours a week.*

NOTE. Courses 13, 14 and 17, 18 are conducted entirely in German.

19, 20. GERMAN POETRY.—*Two hours a week.*

For graduates and undergraduates

51, 52. HISTORY OF GERMAN CIVILIZATION.—*Two hours a week.*

53, 54. FAUST.—History and development of the Faust idea; incisive study of Goethe's Faust; Goethe's life; influence of Faust. *Two hours a week.*

55, 56. STUDIES IN NINETEENTH CENTURY LITERATURE.—Lectures on the important literary movements in Germany; critical study of Romanticism, Young Germany, and Modern Realism; study of current literature. *Two hours a week.*

57, 58. STUDIES IN EIGHTEENTH CENTURY LITERATURE.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Herder, Goethe, Schiller. *Two hours a week.*

College of Arts and Sciences

59, 60. ADVANCED COMPOSITION.—Critical study of the art of paragraphing; discussion of German literary models; development of style. *One hour a week.*

61, 62. MEDIEVAL LITERATURE.—Analysis and reading of the great German epics; study of the Minnesong; the causes and influences which affected the rise and fall of medieval literature. *Two hours a week.*

Primarily for graduates

101, 102. GOTHIC.—Introduction to the subject of philology; phonetics; study and reading of Gothic. Open to students whose major is German. *Two hours a week.*

103, 104. OLD HIGH GERMAN.—Wright's Old High German Primer. The condition for electing this course is the same as for Course 101, 102. *Two hours a week.*

105, 106. MIDDLE HIGH GERMAN.—Translation of Middle High German texts. The conditions for electing this course is the same as for Courses 101, 102 and 103, 104. *Two hours a week.*

107, 108. ADVANCED LITERATURE.—Research work; original investigation. *Two hours a week.*

NOTE. Course 5, 6 may be taken by graduates who elected Course 3, 4 in their senior year. Collateral reading is a part of all German courses, in which the use of simple texts is designed to increase the vocabulary and cultivate fluency of translation. The abundance of texts now available offers so wide a choice and variation that it is deemed inexpedient to name a list of books which will be read.

SUMMER TERM

PROFESSOR G. W. THOMPSON; ASSISTANT PROFESSOR DRUMMOND

1S. ELEMENTARY COURSE.—For those who wish to acquire or review the essentials of German grammar and the foundation of a German vocabulary.

Greek and Classical Archaeology

2s. SECOND YEAR GERMAN.—This course is designed for students who have completed a year's work in German, or for such teachers as may wish to review their work in this department.

3s. CONVERSATIONAL GERMAN.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs.

4s. GERMAN LITERATURE.—A brief course of lectures covering a period of German literature. This course is designed for advanced students.

Other advanced courses in German may be substituted for Courses 2 and 3 if they seem better adapted to the needs of the students.

The following three courses are offered as graduate work leading to a degree and presuppose on the part of the student a reading and, as far as possible, speaking knowledge of the language.

5s. A CRITICAL STUDY OF THE CLASSICAL PERIOD OF THE EIGHTEENTH CENTURY.—Lectures, references, and discussions.

6s. NATURALISM IN GERMANY, ITS CAUSES, CHARACTER, AND INFLUENCE.—Lectures, references, and discussions. *Three times a week.*

7s. GOETHE AND FAUST.—An incisive study of the life of Goethe; the origin and interpretation of Faust as a work of literature. *Twice a week.*

GREEK AND CLASSICAL ARCHEOLOGY

PROFESSOR HUDDILSTON

The department of Greek and Classical Archeology is arranged with the idea of presenting the several phases of Hellenic civilization. Such courses are offered as will prove serviceable not only to those pursuing the classical languages, but to the student of average interests who, not having studied Greek in the fitting school, may desire to include in his college curriculum some work bearing on the permanent literary and art values contributed by the ancient Greeks to the civilization of both ancient and modern times.

College of Arts and Sciences

1. XENOPHON.—Hellenica, Books I-IV. Study of syntax, and daily exercises in writing Greek. *Four hours a week.*

2. HOMER.—Odyssey, Books VI-XII. The reading of the remaining books, in English translation, is required. Assigned readings on the history of Greek poetry, "the Homeric question," and Homeric antiquities. *Four hours a week.*

3. ATTIC ORATORS.—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. *Two hours a week.*

4. GREEK TRAGEDY.—Euripides's Medea and Sophocles's Antigone. The reading of several other plays in English translation is required; also, parallel reading on the history of the Greek tragic drama. *Three hours a week.*

5. ELEMENTARY GREEK.—The declensions, conjugations; Xenophon's Anabasis, Books I-II, and daily writing of Greek based on the text. *Five hours a week.*

6. XENOPHON AND HOMER.—Anabasis, Books III-IV; sight reading in Attic prose; selections from Homer's Iliad. *Five hours a week.*

Courses 7-54 offer an introduction to the literature, religion, customs, art, and history, and may be taken by students who wish to devote only a year or two to Greek subjects.

7. GREEK PRIVATE LIFE.—Text-book, lectures, illustrated with lantern slides and photographs; assigned reading. *Two hours a week.*

8. GREEK RELIGION.—A study of the chief divinities in ancient Greek religion, and their relation to art and literature; lectures and assigned reading; investigation of special topics by members of the class. *Two hours a week.*

9, 10. GREEK AND ROMAN CIVILIZATION.—This course has nothing in common with the "Ancient History" of the preparatory schools. It is rather the achievements of the Greeks and Romans in laying the

Greek and Classical Archeology

foundations of so much that is the basis of our modern day life and thought to which attention is directed. Some examination is made of Egyptian and Eastern civilization as the historic background on which developed Classical life and action. An important part of the course lies in the emphasis that is given to the Greek thought and Roman rule in the midst of which Christianity sprang up.

Students who take Greek 53 and 54 after this course will get the projection of Classical civilization, especially literature and philosophy, as it culminated in the Renaissance of Italy, France and England. While especially the needs of freshmen are kept to the front in this course it is open to all students.

Instruction is entirely by lectures and each student is required to keep a note-book, and also have as parallel reading Seignobos's *Ancient Civilization*. *Three hours a week*.

51. GREEK LITERATURE.—The history of poetry; epic, lyric, and dramatic. Types and standards of verse composition established by the Ancient Greeks, and some consideration of the Greek influence upon later poetry, particularly the epic. Lectures and readings from English translations. Each student will be expected to make a special study of some one author, and in the treatment of Aeschylus, Sophocles, and Euripides, at least one play of each will be read in class, members of the class taking the several parts. This course as well as the next on prose literature, is intended to be foundational for students majoring in classics or in modern languages. *Three hours a week*. Given in 1915-16 and alternate years.

52. GREEK LITERATURE.—The history of prose literature in ancient Greece. History, oratory, and philosophy will be traced in succession. Students will be expected to do parallel reading, especially in Thucydides, Demosthenes and Plato. This course may be taken only in connection with Greek 51 and like the latter is intended to place the student in touch with the forces of lasting value in Greek letters. *Three hours a week*. Given in 1915-16 and alternate years.

53, 54. CLASSICAL CIVILIZATION.—A seminar course throughout the year, open only to those who have taken Greek 9, 10 and intended to place the student in touch with the Classical Heritage of the Middle Ages and the part played especially by Greece in the Revival of Learning. Lectures, discussions by members of the class, and written and oral reports. *Two hours a week*.

HISTORY

PROFESSOR COLVIN; MR. WHITMORE

For undergraduates only

1. MEDIEVAL HISTORY.—A general course covering the period from 395 to 1500 A. D. The disintegration of the Roman Empire; ecclesiastical institutions; feudalism; struggle between the papacy and the empire; rise of modern nations. Required of major students in history. Not open to freshmen. *Three hours a week.*

2. MODERN HISTORY.—Continuation of Course 1 to the present time. A rapid survey of the Reformation; the absolute monarchy in France, the French Revolution; the Napoleonic era; Europe in the nineteenth century. Not open to freshmen. *Three hours a week.*

3. HISTORY OF ENGLAND.—From early times to the beginning of the Stuart period. Especial attention is given to social and industrial conditions. Not open to freshmen. *Three hours a week.*

4. HISTORY OF ENGLAND.—Continuation of Course 3. From the beginning of the Stuart period to the present. Not open to freshmen. *Three hours a week.*

5. HISTORY OF THE UNITED STATES.—A general course from 1848 to the present time. Open to technical students only. *Two hours a week.*

6. RECENT HISTORY.—This course deals mainly with the 20th century. A special study is made of some of the most important events in the year in which the course is given. Not open to freshmen. *Two hours a week.*

7, 8. UNITED STATES HISTORY AND GOVERNMENT.—This course is open to freshmen only and credit will not be given except for the full years' work. *Three hours a week.*

9. HISTORY OF THE UNITED STATES.—The period from 1783 to 1848. This course will begin with a brief study of Colonial history from 1750. Not open to freshmen. *Three hours a week.*

History

10. HISTORY OF THE UNITED STATES.—A continuation of Course 6, from 1848 to the present time. Not open to freshmen. *Three hours a week.*

For graduates and undergraduates

51. THE RENAISSANCE.—This course takes up the Renaissance as an intellectual and social movement in Italy and its expansion into France, England, and Germany. Students taking this course will be expected to take the course in Italian Art. *Three hours a week.*

52. THE REFORMATION.—This course is primarily a study of the Protestant revolt, but an introductory study will be made of Waldo, St. Francis of Assisi, and religious conditions during the Renaissance. *Three hours a week.*

53. MODERN CONTINENTAL EUROPE.—The period from the Peace of Utrecht to 1789. *Three hours a week.*

54. MODERN CONTINENTAL EUROPE.—Period of the French Revolution and Napoleon I. *Three hours a week.*

55. MODERN CONTINENTAL EUROPE.—The period since 1815. *Three hours a week.*

56, 57. INDUSTRIAL AND SOCIAL HISTORY OF ENGLAND.—The medieval manor town, guild, and foreign trade; Black death and Peasants' Rebellion; breaking up of the medieval system; expansion of England; the industrial revolution; government control in the nineteenth century; and the growth of voluntary association. This course is continuous for the year and during the latter half is carried over into Colonial and United States social and industrial history.

58, 59. HISTORICAL CONSTRUCTION AND CRITICISM.—*One hour a week.*

SUMMER TERM

PROFESSOR COLVIN

18. UNITED STATES HISTORY.—From 1860 to the present time. Especial attention will be given to the Civil War and Reconstruction periods.

College of Arts and Sciences

2s. EUROPE SINCE 1815.—This course will be a study of the past century in an effort to understand some causes of the present war.

3s. SPANISH-AMERICAN HISTORY.—This course will take up Spanish colonization and its comparison and contrast with the English; the rise and development of independent Spanish American States; the relations between the U. S. and the Spanish American state, and the Pan-American idea.

Arrangements may be made for taking either Course 2s or 3s for graduate credit as a minor subject.

LATIN

PROFESSOR CHASE

For undergraduates only

1. LIVY.—Selections from Livy, History of Rome; composition, with review of Latin syntax. *Four hours a week.*

2. CICERO AND HORACE.—Cicero, De Senectute; Horace, Odes and Epodes; Latin composition. *Four hours a week.*

3. TACITUS.—Reading and discussion of the Agricola and Germania. *Three hours a week.*

4. TERENCE AND PLAUTUS.—The Phormio of Terence; the Captivi and Trinummus of Plautus; study of early Latin and the development of Roman comedy. *Three hours a week.*

8. TEACHERS' COURSE.—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Vergil. *Two hours a week.* Given in 1915-16 and alternate years.

For graduates and undergraduates

51. LATIN COMPOSITION.—Practice in writing Latin; study of Latin syntax. *One hour a week.*

Latin

52. LATIN COMPOSITION.—Practice in writing Latin; study of Latin rhetoric. *One hour a week.*

53. THE YOUNGER PLINY.—Reading of selected letters of Pliny; the Roman Empire. *Three hours a week.* Given in 1916-17 and alternate years.

54. HORACE AND JUVENAL.—Reading of selections from the great satirists; study of Roman satire and social life. *Three hours a week.* Given in 1916-17 and alternate years.

55. TACITUS.—Reading of the *Annales* and study of the reign of Tiberius. *Three hours a week.* Given in 1915-16 and alternate years.

56. THE ROMAN ELEGIAC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; study of elegiac poetry. *Three hours a week.* Given in 1915-16 and alternate years.

57, 58. ROMAN PHILOSOPHY.—Reading from Cicero's philosophical writings and from Lucretius; discussion of the leading schools of ancient philosophy. *Three hours a week.* Given in 1914-15 and alternate years.

59, 60. ROMAN RHETORIC AND ORATORY.—Quintilian (selections from the *Institutio Oratoria*); Tacitus (*Dialogus de Oratoribus*); Cicero (selections from the *Brutus*, *De Oratore*, and *Orator*). Open to students who have taken Courses I, 4. *Three hours a week.* Given in 1915-16 and alternate years.

61. ROMAN PRIVATE LIFE.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman every-day life. Open to students who have taken Courses I, 4. *One hour a week.* Given in 1915-16 and alternate years.

Primarily for graduates

- 101, 102. ROMAN LITERATURE.—General introduction to the subject; illustrative class-room readings. Open to students who have taken Courses I, 4. *Three hours a week.* Given in 1916-17 and alternate years.

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103, 104. THE LATIN LANGUAGE.—A discussion of the fundamental principles of linguistic growth and change and of the relationship of Latin to other languages; Latin phonetics; the development of inflectional forms in Latin. Lectures and recitations. *One hour a week.* Given in 1916-17 and alternate years.

105. ROMAN NUMISMATICS.—Practice in the use of coins as original sources for the study of history, mythology, archeology, etc. *One hour a week.* Given in 1916-17 and alternate years.

107. SANSKRIT.—An elementary course in the classical language of India, with especial reference to the light it throws upon the history and grammar of the languages of Europe. *Two hours a week.* Given when asked for by a sufficient number of students.

108. SANSKRIT.—A continuation of Course 107, with more attention to the classical literature of India. *Two hours a week.*

SUMMER TERM

8s. TEACHERS' COURSE.—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Caesar, Cicero, and Vergil.

2s. COLLEGE COURSE.—A course for students who desire college credits looking to the B. A. degree. It is the plan of the department to offer a double course that shall cover the work of an entire college semester and to vary the course from year to year, so that a student in a few summers may complete a fairly comprehensive course of college study in Latin. The choice of the subjects will rest partly with the class. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

103s. GRADUATE STUDY.—It is possible for a graduate student majoring in Latin to fulfill the requirements for the M. A. degree in four summers. The department offers a series of advanced courses, of the value of three semester hours' credit each, extending over a period of four years. These will give twelve semester hours' credit and together

Mathematics and Astronomy

with a thesis on some suitable Latin subject, will meet all the major requirements for the Master's degree. The courses offered, subject to modifications upon due notice, are as follows: Critical Study of Latin Literature of the Ciceronian and Augustan Periods; Roman Philosophy; Roman Rhetoric and Oratory. In addition to the major work in Latin, a graduate student will be required to take work amounting approximately to twelve semester hours in minor subjects. This work can be carried along with the Latin work and completed at the same time. It may be most conveniently divided between two subjects which bear some relation to the major work. The subjects best adapted for minors are English, History, French, Education, and German.

MATHEMATICS

PROFESSOR HART; ASSOCIATE PROFESSOR WILLARD; ASSISTANT PROFESSOR HAMLIN; ASSISTANT PROFESSOR REED; MR. WILBUR; MR. NORDGAARD; MR. WOODS

Students electing Mathematics as a major subject should expect to take Courses 1, 2, 3, 5, 6, 7, 8, 9, 51, 53, 54, 52, 61, and either Courses 15 and 57 or Mechanics 7 and 8. They are also advised to take several courses in Physics.

For undergraduates only

1. TRIGONOMETRY.—The trigonometric functions; radian measure; functions of two or more angles; logarithms; solution of right and oblique triangles; trigonometric equations; inverse functions. *Five hours a week.* First ten weeks.

2. SOLID GEOMETRY.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. *Three hours a week.* Open to all freshmen who did not offer it for admission.

3. COLLEGE ALGEBRA.—A brief review of radicals, the theory of exponents, quadratic equations, and the binomial theorem; determinants; theory of equations. *Five hours a week.* Last eight weeks.

5. ADVANCED ALGEBRA.—Determinants and the solution of higher equations. Open to students who have taken Courses 1, 2, and 3. *Three hours a week.*

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6. ANALYTIC GEOMETRY.—The point, line, circle, and conic sections; higher plane curves; elements of solid analytic geometry. *Five hours a week.* Open to students who have had Courses 1 and 3 and the equivalent of Course 2.

7. CALCULUS.—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; maxima and minima. Open to students who have taken Courses 1, 2, 3, and 6. *Five hours a week.*

8. CALCULUS.—A continuation of Course 7. Integration of the elementary forms; integration between limits; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.*

9. SPHERICAL TRIGONOMETRY.—The elements of this subject with problems and applications to spherical astronomy. *Two hours a week.*

11. TRIGONOMETRY FOR AGRICULTURAL STUDENTS.—A course essentially equivalent to Course 1. *Three hours a week.*

12. APPLICATIONS OF TRIGONOMETRY.—A course given for students in Agriculture and Forestry, and open to others who have taken Course 1 or 11. Further practice in the solution of problems with applications to plane surveying. *Two hours a week.*

13. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course given for students in Chemistry and for those in the College of Arts and Sciences who desire only a brief course in this subject. *Three hours a week.*

For graduates and undergraduates

51. ADVANCED ANALYTIC GEOMETRY.—A course for students who have completed Courses 5, 6, 7, and 8. *Three hours a week.* Given in 1916-17 and alternate years.

52. SOLID ANALYTIC GEOMETRY.—A course based upon C. Smith's Solid Geometry. *Three hours a week.* Given in 1916-17 and alternate years.

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53. ADVANCED CALCULUS.—This course is varied from time to time by using different texts. Open to students who have taken Courses 6, 7, and 8. *Three hours a week.* Given in 1915-16 and alternate years.

54. ADVANCED INTEGRAL CALCULUS.—A continuation of Course 53. *Three hours a week.* Given in 1915-16 and alternate years.

56. DIFFERENTIAL EQUATIONS.—Open to students who have taken Courses 7, 8. *Two hours a week.*

61. HISTORY OF MATHEMATICS.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

101. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.—An elementary course in the treatment of analytic functions. The course includes a consideration of infinite series, both single and double, infinite products, conformal representation, and a brief application of the theory to Fourier's series, the gamma, beta, and Bessel functions, and spherical harmonies. *Three hours a week.*

102. ELLIPTIC FUNCTIONS.—The Weierstrass and Jacobi functions. A brief treatment of transformation theory, and numerous examples. *Three hours a week.*

103. MODERN ANALYTIC GEOMETRY.—Homogeneous coördinates, ideal elements, principle of duality, and an analytic treatment of the straight line and the conics. *Three hours a week.*

104. MODERN ANALYTIC GEOMETRY.—A continuation of Course 103. *Three hours a week.*

105. THERMODYNAMICS.—The subject is considered more from a mathematical than from a physical standpoint. The subject is developed from fundamental principles, and is extended to systems of a more general character than those usually considered. *Three hours a week.*

106. THERMODYNAMICS.—A continuation of Course 105. *Three hours a week.*

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SUMMER TERM

PROFESSR HART; ASSOCIATE PROFESSOR WILLARD; ASSISTANT PROFESSOR
HAMLIN

Courses A, B, I, and 2 are planned to meet the needs of high school teachers who wish to review the subjects, or to study methods of teaching, as well as those of prospective candidates for admission to college who have not fully satisfied the entrance requirements in these subjects. All the teachers in this department of the Summer Term had experience in high school work before entering upon college teaching. Courses 3, 6, 7, 8, 10 should appeal to teachers of high school mathematics who wish to extend their field of mathematical knowledge or to become candidates for a degree. The remaining courses may be counted toward the bachelor's or, under suitable restrictions, toward the master's degree.

A. HIGH SCHOOL ALGEBRA.—A course intended for teachers in preparatory schools and covering the second year's work. Special attention will be given to the methods of presenting this subject and those topics will be emphasized that are most important in preparation for college work. Candidates for admission to the university who are deficient in a part of their preparation in algebra are advised to take this course.

B. PLANE GEOMETRY.—A review of the more important theorems, with practice in the demonstration of original propositions and in the solution of numerical exercises. For teachers in preparatory schools and for candidates for admission who are slightly deficient in geometry.

2S. SOLID GEOMETRY.—This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry.

IS. PLANE TRIGONOMETRY.—The elements of plane trigonometry, including the solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry, which may be useful for reference.

3S. COLLEGE ALGEBRA.—The theory of quadratic equations, the binomial theorem, and so much of the regular freshman course in algebra as time will permit.

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6s. ANALYTIC GEOMETRY.—A brief course covering the elements of this subject.

7s. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course intended for teachers in preparatory schools who wish to gain a knowledge of the elements of this subject.

8s. INTEGRAL CALCULUS.—The equivalent of Course 8 of the catalog. Open only to those who have previously studied the subject.

10s. DESCRIPTIVE ASTRONOMY.—Lectures accompanied by work in the observatory. The only mathematics required is an elementary knowledge of geometry and plane trigonometry.

51s. ADVANCED ANALYTIC GEOMETRY, equivalent to a part of Course 51 of the catalog.

53s. ADVANCED CALCULUS, equivalent to a part of Course 53 of the catalog.

101s. THEORY OF FUNCTIONS, equivalent to a part of Course 101 of the catalog.

58s. OBSERVATORY WORK.

By suitable selection of topics, a candidate should be able to complete the work for the master's degree in four or five summer terms, the exact time depending upon his mathematical ability and previous mathematical preparation.

The department is supplied with a small but carefully selected list of mathematical models, and, for work in astronomy, has an observatory equipped with an eight inch Clark equatorial, a three inch Bamberg astronomical transit, and other instruments.

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 205.

PHILOSOPHY

PROFESSOR CRAIG

1. EVOLUTION.—Evolution of stars, of the earth, of life, of mind, of society; laws of heredity; eugenics. The course gives a concise treatment of these topics, as foundation for studies in psychology, sociology, and allied fields. *Three hours a week.*

2. ANTHROPOLOGY.—The early history of man. Origins of the arts and sciences, of language, of social life, customs, and institutions. Comparison of races and of civilizations. *Three hours a week.*

5, 6. LOGIC.—A course in logic will be given when there are six or more students who wish to take it. *Two hours a week.*

51. PSYCHOLOGY.—The subjects treated in this course are the anatomy and physiology of the nervous system and sense-organs, and the psychology of sensation, perception, instinct, and habit. The methods used are recitation, discussion, introspection (self-observation), observation of others, experiment, and demonstration. *Three hours a week.*

52. PSYCHOLOGY.—A continuation of course 51, dealing especially with the higher psychic functions, such as imagination, conception, reasoning, emotion, and will. *Three hours a week.*

53. APPLIED PSYCHOLOGY.—Psychology of the fine arts; psychology of business, advertising, politics, social control; mental mechanisms, with a brief discussion of dreams, hypnotism, insanity. Lectures, reading. *Two hours a week.*

54. SOCIAL PSYCHOLOGY.—A study of the social aspects of the individual mind; of the instincts which underlie all social life; of social influence and social control; of fashion, convention, and custom; of the crowd, the mob, the public, and the deliberative assembly. A knowledge of elementary psychology is a prerequisite. *Two hours a week.*

55. GENETIC PSYCHOLOGY.—Mental development of the individual: childhood, adolescence, maturity. Prerequisite: a knowledge of elementary psychology. *Two hours a week.*

Philosophy

58. EXPERIMENTAL PSYCHOLOGY.—A laboratory course, which is best taken in connection with course 52. Experiments on sensation, perception, imagination, learning, memory, etc. Students registering for this course should, if possible, find partners for experiments requiring co-operation. **Four hours a week.*

81. HISTORY OF PHILOSOPHY.—Greek Philosophy. A rapid survey of Jewish, Roman, and early Christian philosophy. The Middle Ages, the Renaissance, and the beginnings of modern thought. A text-book will be used. *Three hours a week.* Given in 1915-16 and alternate years.

82. HISTORY OF MODERN PHILOSOPHY.—A continuation of the preceding course, bringing the history of thought down to the present day. German, French, British, and American philosophy. *Three hours a week.* Given in 1916 and alternate years.

83. ETHICS.—History of moral codes, ideas, and customs. The scientific basis of morality. Applications to practical problems. *Three hours a week.* Given in 1916-1917 and alternate years.

98. READINGS IN PSYCHOLOGY AND PHILOSOPHY.—The readings which will be made the basis of recitations, discussions, and lectures, may be in any one of the various branches of psychology and philosophy; the branch is chosen depending largely upon the interests of the class. Prerequisite, one or more courses in psychology or philosophy; students intending to register for this course should consult the instructor. *Three hours a week.* Given in 1917 and alternate years.

99, 100. SEMINAR.—Reviews of current psychological literature. Social psychology is emphasized. Magazine articles or books are assigned to individual students, to be abstracted and reported upon. The student may select those topics in which he is especially interested. The work may be continued a number of semesters. *One hour a week.*

101, 102. RESEARCH.—*The number of hours a week is not fixed, but must be arranged at the time of registration.*

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PHYSICS

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN; ASSISTANT PROFESSOR HOLMES; MR. FRENCH; MR. BROWN

NOTE.—For students who are specializing in this department, the time indicated for the various laboratory courses may be extended. Two and one-half hours of laboratory work give a credit of one hour.

For undergraduates only

1. GENERAL PHYSICS.—Recitations and lectures on the dynamics of solids, liquids, and gases; sound and light; experiments before the class; problems. Open to students who have taken Mathematics I. *Five hours a week.*

2. GENERAL PHYSICS.—A continuation of Course 1. Heat and electricity. *Three hours a week.*

3. QUALITATIVE LABORATORY WORK.—A course in which students who are preparing to become teachers of physics are given the opportunity of performing the various class-room experiments which accompany the lectures in Courses 1 and 2. **Five hours a week.*

4. LABORATORY PHYSICS.—The subjects usually included in an undergraduate course. Especial attention is given to the reduction of observations and the tabulation of results. Open to students who have taken either Course 1 or Course 5. **Five hours a week.*

5. GENERAL PHYSICS.—A course covering the ground of Courses 1 and 2, with more attention to the experimental and historical aspects, and less to the mathematical. *Five hours a week.*

6. METEOROLOGY.—A course covering the essential principles of the subject of meteorology, including a study of meteorological instruments and weather predictions. *Three hours a week.*

7. METEOROLOGY.—A continuation of Course 6, dealing with special topics, and a discussion of the results obtained at the meteorological observatory. *One hour a week recitation; *two and one-half hours a week laboratory.*

Physics

8. ELEMENTARY PHYSICS.—This course is to be taken only by students in Home Economics, and will consist of four recitations and one laboratory period per week. *Five hours a week.*

For graduates and undergraduates

50. OPTICS.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Three hours a week.* Given in 1915-16 and alternate years.

51. MECHANICS AND HEAT.—Advanced laboratory work in continuation of Course 4. **Seven and one-half hours a week, or *five hours a week.*

52. OPTICS.—Advanced laboratory work in continuation of Course 4. **Seven and one-half hours a week, or *five hours a week.*

53. ELECTRICAL MEASUREMENTS.—Advanced laboratory work in continuation of Course 4. **Seven and one-half hours a week.*

55. THEORY OF ELECTRICITY AND MAGNETISM.—Lectures and recitations on the mathematical theory of potential, capacity, and inductance, with application to direct current phenomena. *Two hours a week.*

57. PROBLEMS IN ELECTRICITY.—This course may only be taken in connection with Course 55 or Course 59, as the problems will be selected from the work covered in those courses. *One or two hours a week.*

58. MATHEMATICAL PHYSICS.—The application of mathematical methods to the treatment of problems in physics. *Two hours a week.* Given in 1916-17 and alternate years.

59. THEORY OF ALTERNATING CURRENTS.—Continuation of Course 55 with applications to alternating current phenomena; the addition and subtraction of vector quantities; the analysis of wave forms by use of Fourier's series; the algebra of complex numbers. *Two hours a week.*

60. SOUND.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Three hours a week.* Given in 1916-17 and alternate years.

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61. HEAT.—An advanced course in heat in continuation of Course 2. *Three hours a week.* Given in 1915-16 and alternate years.

62. THERMODYNAMICS.—An elementary course in thermodynamics. *Two hours a week.*

63. THEORY OF MEASUREMENTS.—A text-book course covering the more important topics treated in this subject. *Two hours a week.*

64. PROBLEMS IN THERMODYNAMICS.—This course may be taken in connection with Course 62, by those desiring further training in the solution of practical problems in thermodynamics. *One or two hours a week.*

65. PRECISION OF MEASUREMENTS.—Lectures required of juniors in mechanical engineering. *One hour a week for five weeks.*

69. RADIO-ACTIVITY.—A combined lecture and laboratory course. Elementary quantitative experiments in radio-activity are performed. *Two hours a week.* Given in 1915-16 and alternate years.

Primarily for graduates

101. SPECIAL LABORATORY COURSE.—A course open to students who have completed Courses 51, 52, 53. A subject is assigned for original investigation, or the work of a published research is repeated. **Five hours a week.*

102. SPECIAL LABORATORY COURSE.—A continuation of Course 101. **Seven and one-half hours a week.*

103. RADIATION.—This course comprises lectures and outside reading on the following topics: the electromagnetic theory of light; the development of Maxwell's equations; the application of Maxwell's equations to the reflection, refraction, and polarization of light; the radiation and absorption of a theoretical black body; the theories of emission and absorption; electric waves and light pressure. *Two hours a week.* Given in 1916-17 and alternate years.

Physics.

105, 106. MATHEMATICAL PHYSICS.—A course more advanced in character than Course 58. It is designed to prepare students for reading mathematical books and papers in connection with their work for a doctor's degree. *Three hours a week.*

SUMMER TERM

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN

1S. ELEMENTARY LABORATORY COURSE.—This includes a list of experiments which would be accepted for admission to the University of Maine. The course is especially adapted for teachers who wish to become familiar with the methods of conducting an elementary laboratory course. The complete set of apparatus is assembled in the laboratory, and full directions are given for performing each experiment.

2S. GENERAL LABORATORY COURSE.—This corresponds to the course given in the university for all students in the College of Technology. It is based on Miller's Laboratory Manual, and includes experiments along the lines of mechanics, heat, light, sound, and electricity.

3S. COLLEGE PHYSICS.—A course based upon those parts of Kimball's College Physics which treat of mechanics, light, and sound. This course may be taken for credit only by students who have covered the ground in Physics 1.

4S. COLLEGE PHYSICS.—A course based upon those parts of Kimball's College Physics which treat of electricity and heat. This course may be taken for credit only by students who have covered the ground in Physics 2.

5S. ADVANCED LABORATORY COURSES.—These courses are offered in optics, electrical measurements, and heat. They are of a more advanced nature than those in Course 2S, which is a prerequisite for them.

6S. ADVANCED LABORATORY COURSE FOR GRADUATE CREDIT.—This course will be adapted to the requirements of the students, and will be offered to such students as have completed the courses above listed. The work will be in the nature of a repetition of a published experiment, or it may be an original investigation.

College of Arts and Sciences

7s. **ADVANCED PHYSICS.**—A course for candidates for the master's degree will be offered in this department each summer. The course will vary for four successive terms so that the student may have an opportunity to cover a wide field. For 1916 the subject will be Theory of Measurements, and will, when completed, count for two credits on the university books.

PUBLIC SPEAKING

PROFESSOR DAGGETT; MR. CRANSTON

Courses 1 and 2, 3 and 4, are elementary courses; the advanced courses are intended for students who expect to make use of public speaking in college or in after life, and for students who wish to overcome individual faults in everyday speech. Students interested in any form of speech-making or debate are advised to take Course 5 at their earliest opportunity. This course may be followed by Course 6 or Course 8, according to individual interests.

For undergraduates only

1, 2. **PUBLIC SPEAKING.**—Practical training in the fundamentals of effective speaking. During the year, the student studies and analyses several pieces of exposition, argumentation, and persuasion, and reports in writing on his investigation. He also prepares original speeches and delivers them before the class. In the speaking, constant attention is given to diction and to correction of individual faults. The student's grade depends more upon right effort and improvement than upon natural qualifications for speaking. Conferences are required. Open only to freshmen in the College of Arts and Sciences. *One hour a week.*

3, 4. **PUBLIC SPEAKING.**—Similar to Courses 1 and 2, with the exception that more attention is given to exposition and the adaptation of technical subject-matter to speaking. Speeches will be delivered for the purpose of training the speaker to address a business meeting, or a popular audience, on a technical subject. Outside reading and written reports are required of all students. Conferences are required of students who need special drill. With the permission of the instructor, especially qualified students may substitute any elective course in pub-

Public Speaking

lic speaking, for the required 3 and 4. *One hour a week.* Open only to sophomores in the College of Agriculture and Technology.

5. DEBATING. A systematic study of the principles of argumentation. Special study of analysis of the proposition, briefing, treatment of evidence, refutation, and the preparation of forensics as applied to formal debate. Monthly briefs, conferences, and oral debate. *Two hours a week.* Prerequisites, English 5, 6, or 7, 8.

Students not interested in oral debate should elect Eh. 11. (Argumentative composition). Either English 11, or Course 5 give fundamental training for Course 6 and Course 8.

6. ADVANCED DEBATING.—A review and continuation of 5, but devoting relatively more time to practice in oral debate. Open to a limited number of students who have shown ability in argumentation or debate. Prerequisites, Course 5 or English 11. *Two hours a week.* With instructor's consent, Course 6 may be repeated with credit.

7. ORAL ENGLISH.—A fundamental course in voice production, diction and extempore speaking. Practice in reading lyric, narrative, and dramatic forms, with constant application to the requirements of public speech. Prerequisites, English 5, 6 or 7, 8.

8. THE OCCASIONAL PUBLIC SPEECH.—A study of persuasion as applied to the various forms of public address. The plan and method of typical speeches will be studied. The student will also prepare and deliver original speeches illustrating such various forms of public discourse as the eulogy, the commencement oration, the anniversary speech, the speech in behalf of a cause, the informal discussion, and the after-dinner speech. There will be both oral and written exercises, and monthly conferences. *Two hours a week.* Prerequisite, Course 5.

College of Arts and Sciences

SPANISH AND ITALIAN

PROFESSOR RAGGIO

Spanish

For undergraduates only

1, 2. SPANISH FOR BEGINNERS.—In this course stress will be laid upon grammar, reading, and composition. The instructor will insist upon careful pronunciation and accurate translation. At the end of the course the student should be able to read at sight easy Spanish prose. During the spring semester collateral reading will be assigned. *Three hours a week.*

3, 4. SPOKEN SPANISH.—Stress will be laid in this course upon dictation and conversation. There will be frequent exercises in declamation and oral composition. Students will be expected to read, memorize, and declaim selections in prose and verse. Open to students who pass Courses 1, 2 with a grade not lower than B, or who otherwise satisfy the instructor of their fitness to take the course. *Two hours a week.*

5, 6. SPANISH PROSE OF THE NINETEENTH CENTURY.—The object of this course is to acquire a sufficient reading knowledge of Spanish to be able to read at sight ordinary prose, to gain some acquaintance with the literature of the nineteenth century, and to facilitate the study later on of the Spanish classics. Collateral reading will be assigned. Open to students who have taken Courses 1, 2, or an equivalent. *Three hours a week.*

For undergraduates and graduates

51, 52. SPANISH CLASSICS.—In this course the first part of Cervantes' *Don Quijote* will be read entire. Selections from the works of Lope de Vega and Calderón will also be studied. About 1000 pages of collateral reading will be assigned. Open to students who have taken Courses 5, 6, or an equivalent. *Three hours a week.*

Spanish and Italian

Italian

For undergraduates only

1, 2. ITALIAN FOR BEGINNERS.—This is a course in Italian grammar, reading, and composition designed for those who wish to begin as soon as practicable the study of the Italian classics. During the spring semester collateral reading will be assigned. *Three hours a week.*

For undergraduates and graduates

51. CARDUCCI.—In this course will be included selections from the prose writings as well as from the poetry of Carducci. The structure of Italian verse will be considered. The course is intended to serve as an introduction to the study of the works of Dante taken up in Course 52. Collateral reading will be assigned. Open to students who have taken Courses 1, 2, or an equivalent. *Three hours a week.*

52. DANTE.—In this course the *Vita nuova* and the *Inferno* will be read entire. Collateral reading will be assigned. Open to students who have taken Course 51, or an equivalent. *Three hours a week.*

COLLEGE OF LAW

FACULTY OF INSTRUCTION

WILLIAM EMANUEL WALZ, A. M., LL. B., LITT. D.

DEAN

Professor of Law

EDGAR MYRICK SIMPSON, A. B.

Professor of Law

GEORGE HENRY WORSTER, LL. M. *Associate Professor of Law*

BARTLETT BROOKS, A. B., LL. B., *Assistant Professor of Law*

LUCILIUS ALONZO EMERY, A. M., LL. D., Justice and Chief Justice of Supreme Judicial Court of Maine 1883-1911

Lecturer on Roman Law and Probate Law

LOUIS CARVER SOUTHARD, M. S., LL. D., Member of the Massachusetts Bar and of the United States Supreme Court Bar

Lecturer on Medico-Legal Relations

EDWARD HARWARD BLAKE, LL. B., LL. D.

Lecturer on Admiralty Law

ISAAC WATSON DYER, A. B.

Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations

JOHN ROGERS MASON, A. M., LL. B. *Lecturer on Bankruptcy Law*

WILLIAM BRIDGHAM PEIRCE, B. M. E.

Resident Lecturer on Common Law Pleading and Maine Practice

HENRY BURT MONTAGUE, LL. M.

Lecturer on Practice and History of Law

General Information

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies the Isaac H. Merrill building, now Stewart Hall, purchased by the University in 1911, corner Union and Second Streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains over 4,500 volumes, including the reports of the Federal Courts, and of the Supreme Courts of the United States, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and Ohio; the Court of appeals of New York; the New York Common Law and Chancery Reports; the American Decisions, American Reports, and American State Reports; the complete National Reporter System; the Lawyers' Reports Annotated; the English Reports, full verbatim reprint; the English Ruling cases; and the American Digest; all the important law Encyclopedias; and a considerable number of text-books.

ADVANCED STANDING

A student entering from any law school having equal admission requirements is admitted to advanced standing and given full credit for work done in the school from which he comes, upon presenting certificates of proficiency from its executive head. All other persons seeking advanced standing as regular students must have the necessary educational qualifications required for admission and must pass examinations in the subjects covered in the earlier part of the curriculum.

Members of the Bar of any state may be admitted to the senior class in the fall semester as candidates for the degree of Bachelor of Laws on presentation of their certificates of admission to the Bar; graduate students, as well as members of the Bar having this degree, may take the graduate courses leading to the degree of Master of Laws.

METHODS OF INSTRUCTION

The college is not committed exclusively to any one method of instruction, but the case system is consistently used in all the subjects of the law for which good case-books have been provided, and the great cases of the law, the land marks of legal development, form the basis of the recitations. The College of Law recognizes the great value of lectures by able men, and the profit to be found in the use of standard

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text-books; but the greatest stress is placed upon the study of selected cases, and most of the work is carried on in this way. It is believed that thru the case the student can best come at the controlling principles of the law, and that in no other way can he get so vital a comprehension of them. "Through the case to the principle" may, perhaps, adequately indicate the stand-point of the college in the matter of method.

Particular stress is placed upon the practice court, which is held once a week as a part of the work of the college, and in which every student is required to appear regularly. The questions of law are in all instances made to arise from the pleadings prepared by the students, and briefs summarizing the points involved and the authorities cited are submitted to the presiding judge.

CURRICULUM

The curriculum covers three years, in accordance with the requirements for admission to the bar in the State of Maine. College graduates of unusual ability are permitted to arrange their work so as to complete the course in two years, provided they maintain an average of eighty percent, or above. The three years curriculum is, however, recommended in all cases.

Courses designated by an odd number are given in the fall semester; those designated by an even number in the spring semester.

COURSES OF INSTRUCTION

2. ADMIRALTY.—A course of lectures. *One hour a week.* MR. BLAKE.
4. AGENCY.—**Two hours a week.* ASSOCIATE PROFESSOR WORSTER.
1. BANKRUPTCY.—Lectures. †*One hour a week.* MR. MASON.

*The subjects starred are given in alternate years. Agency alternating with Insurance, Sales with Suretyship, Damages with Municipal Corporations, Real Property (cases) with Conflict of Laws.

†Admiralty, Bankruptcy, Executors and Administrators, History of Law, and International Law are given once in two years.

‡Roman Law, Probate Law, and "What to do in Court and How," are given about once in three years.

All courses given are required of candidates for the degree of Bachelor of Laws.

Courses of Instruction

3. BRIEF MAKING AND THE USE OF LAW BOOKS.—*One hour a week.* PROFESSOR WALZ.
5. CARRIERS.—*Three hours a week.* PROFESSOR SIMPSON.
- 7, 8. COMMON LAW PLEADINGS.—Lectures. *One hour a week.* MR FEIRCE.
10. CONFLICT OF LAWS.—**Three hours a week.* PROFESSOR SIMPSON.
12. CONSTITUTIONAL LAW.—*Two hours a week.* ASSOCIATE PROFESSOR WORSTER.
- 53, 54. CONTRACTS.—*Three hours a week.* ASSISTANT PROFESSOR BROOKS.
11. CRIMINAL LAW.—*One hour a week.* PROFESSOR SIMPSON.
16. CRIMINAL LAW.—*Two hours a week.* PROFESSOR SIMPSON.
13. DAMAGES.—**Two hours a week.* ASSOCIATE PROFESSOR WORSTER.
15. DOMESTIC RELATIONS.—*Two hours a week.* PROFESSOR SIMPSON.
17. EQUITY JURISPRUDENCE.—*Three hours a week.* PROFESSOR WALZ.
18. EQUITY JURISPRUDENCE.—*Two hours a week.* PROFESSOR WALZ.
19. EVIDENCE.—*Three hours a week.* PROFESSOR SIMPSON.
20. EQUITY PLEADING.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.
22. EVIDENCE.—*Two hours a week.* PROFESSOR SIMPSON.
24. EXECUTORS AND ADMINISTRATORS.—†Lectures. *One hour a week.* PROFESSOR SIMPSON.

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26. FEDERAL COURTS.—Lectures. *One hour a week.* PROFESSOR WALZ.
23. FEDERAL JURISDICTION AND PROCEDURE.—Lectures. MR. DYER.
21. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.
55. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.
28. HISTORY OF LAW.—†Lectures. *One hour a week.* PROFESSOR WALZ.
56. INSURANCE.—**Two hours a week.* ASSOCIATE PROFESSOR WORSTER.
30. INTERNATIONAL LAW.—†Lectures. *One hour a week.* PROFESSOR WALZ.
31. LEGAL ETHICS.—*One hour a week.* PROFESSOR WALZ.
34. MAINE PRACTICE.—Lectures. *One hour a week.* MR. PEIRCE.
58. MEDICO-LEGAL RELATIONS.—Lectures. *About six hours.* MR. SOUTHARD.
57. MUNICIPAL CORPORATIONS.—**Two hours a week.* PROFESSOR WALZ.
35. NEGOTIABLE PAPER.—*One hour a week.* ASSISTANT PROFESSOR BROOKS.
60. NEGOTIABLE PAPER.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.
36. PARTNERSHIP.—*Two hours a week.* PROFESSOR WALZ.
33. PRACTICE AND HISTORY OF LAW.—Lectures. MR. MONTAGUE.
- 37, 38. PRIVATE CORPORATIONS.—*Two hours a week.* ASSOCIATE PROFESSOR WORSTER.

Courses of Instruction

39. PRIVATE CORPORATIONS.—Lectures. MR. DYER.
40. PROBATE LAW AND PRACTICE.—Lectures. †*About ten hours.* EX-CHIEF JUSTICE EMERY.
41. REAL PROPERTY.—*Three hours a week.* PROFESSOR SIMPSON.
42. REAL PROPERTY.—*Two hours a week.* PROFESSOR SIMPSON.
44. REAL PROPERTY CASES.—**Three hours a week.* PROFESSOR SIMPSON.
46. ROMAN LAW.—Lectures. †*About ten hours.* EX-CHIEF JUSTICE EMERY.
45. SALES.—**Three hours a week.* ASSOCIATE PROFESSOR WORSTER.
47. SURETYSHIP.—**Three hours a week.* ASSOCIATE PROFESSOR WORSTER.
48. WHAT TO DO IN COURT.—Lectures. †*About ten hours.* EX-CHIEF JUSTICE EMERY.
49. 50. TORTS.—*Three hours a week.* PROFESSOR WALZ.
52. WILLS.—*Two hours a week.* ASSOCIATE PROFESSOR WORSTER.

COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

HAROLD SHERBURNE BOARDMAN, C. E.

Professor of Civil Engineering

DEAN

CHARLES PARTRIDGE WESTON, C. E., M. A.

Professor of Mechanics and Drawing

CHARLES BARTO BROWN, C. E.

Professor of Railroad Engineering

RALPH HARPER McKEE, PH. D.

Professor of Chemistry

WILLIAM EDWARD BARROWS, E. E.

Professor of Electrical Engineering

WILLIAM JORDAN SWEETSER, S. B.

Professor of Mechanical Engineering

CHARLES WILSON EASLEY, PH. D.

Associate Professor of Chemistry

ALBERT THEODORE CHILDS, E. E.

Associate Professor of Electrical Engineering

ARCHER LEWIS GROVER, B. S. *Associate Professor of Drawing*

WILLIAM AMBROSE JARRETT, PHARM. D. *Professor of Pharmacy*

JULIUS ERNEST KAULFUSS, B. S.

Associate Professor of Civil Engineering

CARL HENRY LEKBERG, B. S.

Associate Professor of Mechanical Engineering

EMBERT HIRAM SPRAGUE, B. S.

Acting Associate Professor of Civil Engineering

LLOYD MEEKS BURGHART, M. A.

Assistant Professor of Chemistry

RAYMOND HARMON ASHLEY, PH. D.

Assistant Professor of Chemistry

General Information

ALBERT GUY DURGIN, M. S. *Assistant Professor of Chemistry*
ALPHEUS CROSBY LYON, B. S.

Assistant Professor of Civil Engineering
JOSEPH NEWELL STEPHENSON, M. S.

Assistant Professor of Chemistry
EVERETT WILLARD DAVEE *Instructor in Wood and Iron Work*

CHARLES JENKINS CARTER *Instructor in Machine Tool Work*

WALTER ELWOOD FARNHAM *Instructor in Drawing*

ERNEST CONANT CHESWELL *Instructor in Electrical Engineering*

ELWOOD WHITNEY JENNISON, B. S.
 Instructor in Mechanical Engineering

TIMOTHY JEREMIAH CONNORS, JR., PHARM. D.
 Instructor in Pharmacy

JAMES JOHN DONEGAN, PH. B. *Instructor in Civil Engineering*

WILLIAM GORDON JAMES, B. S.
 Instructor in Electrical Engineering

ARTHUR WHITING LEIGHTON *Instructor in Drawing*

HARRY GILBERT MITCHELL, B. S., A. M.
 Instructor in Chemistry

ROLAND LEGARD DAVIS, B. S. *Instructor in Civil Engineering*

CHESTER HAMLIN GOLDSMITH, B. S. *Instructor in Chemistry*

FREDERICK WILLIAM LANE, S. B. *Instructor in Chemistry*

ELMER LELAND PARTRIDGE, B. S.
 Instructor in Mechanical Engineering

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, in various branches of engineering, and in pharmacy. The number of hours required for graduation in this college is one hundred and fifty. In such technical curricula it is necessary to prescribe a large proportion of the work; but some elective studies may be chosen in the junior and senior years. Under each of the curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

Chemical Engineering Curriculum

Chemistry Curriculum

Civil Engineering Curriculum

Electrical Engineering Curriculum

Mechanical Engineering Curriculum

Pharmacy Curricula

College of Technology

At graduation in any of these curricula the student receives the degree of Bachelor of Science; except for the short curricula in Pharmacy where the degrees of Graduate in Pharmacy or Pharmaceutical Chemist are conferred. The diploma indicates which curriculum has been completed.

MAINE TECHNOLOGY EXPERIMENT STATION

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station will be under the direct control of the President of the University, the Dean of the College of Technology, and the heads of the departments of Chemistry and Engineering. The Station will carry on practical research in engineering subjects, make investigations for State boards and municipal authorities, furnish scientific information to the industries of the State, and distribute accurate scientific knowledge to the people. A four-page bulletin will be issued monthly during the college year.

Chemical Engineering Curriculum

In view of the rapid development of the application of chemistry in manufacturing, this curriculum is offered to furnish training in engineering together with specialization in chemistry. The first two years are almost identical with those under the Chemistry curriculum, but in the junior and senior years the student takes the fundamental courses in mechanical and electrical engineering, where, in the Chemistry curriculum, the student takes subjects having a biological aspect. The training is thus essentially chemical, and the graduates are primarily chemists having a good knowledge of mechanical and electrical engineering. Such students will be prepared to enter the profession of chemical engineering and to occupy positions in manufacturing establishments such as metallurgical works, bleacheries, dye houses, chemical plants, gas works, sugar refineries, pulp and paper mills, etc.

The College Curricula

Option I. Regular Curriculum

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2 or 4 ...	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 3, *6	2	Drawing 2, *6	2
English 5	3	English 6	3
German 1 or French 3	3	German 2 or French 4	2
Mathematics 1 & 3	5	Mathematics 6	5
Military 1, *3	1	Military 1, *3	1
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Chemistry 11, †10	5	Chemistry 60, †10	5
English 3	1	Chemistry 52, 3 and †4	5
Mathematics 13	3	English 4	1
Mechanical Engineering 3, *4	$1\frac{1}{2}$	Military 1, *3	1
Military 1, *3	1	Modern language	2
Modern language	3	Physics 2	3
Physics 1	2	Physics 4, †5	2

JUNIOR YEAR

Chemistry 53	3	Chemistry 72	2
Chemistry 63, †8	4	Chemistry 64, †4	2
Chemistry 71	3	Chemistry 66, †4	2
Chemistry 17, †4	2	Chemistry 74, †6	3
Chemistry 75	2	Chemistry 96, †4	2
Mechanical Engineering 75, †3	$1\frac{1}{2}$	Mechanical Engineering 14 ...	3
Physics 53, †7 $\frac{1}{2}$	3	Electrical Engineering 30	2
		Elective	2

College of Technology

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 77	3	Chemistry 98, †10	5
Chemistry 101	3	Chemistry 94	1
Chemistry 57, †6	3	Chemistry 76	2
Chemistry 105 } or Geology 3 }	2	Chemistry 104, †8	4
Electrical Engineering 35	2	Elective	5
Electrical Engineering 33 †4..	2		
English 15	2		
English 29	2		
Elective	1		

Option II. Pulp and Paper Curriculum

FRESHMAN YEAR

Chemistry 1 or 3	2	Chemistry 2 or 4	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 3, *6	2	Drawing 2, *6	2
English 5	3	English 6	3
German 1 or French 3	3	German 2 or French 4	2
Mathematics 1 & 3	5	Mathematics 6	5
Military 1, *3	1	Military 1, *3	1
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Chemistry 11, †10	5	Chemistry 60, †10	5
English 3	1	Chemistry 52, 3 and †4	5
Mathematics 13	3	English 4	1
Biology 17, †2	1	Modern language	2
Chemistry 17, †4	2	Physics 2	3
Military 1, *3	1	Physics 4, †5	2
Modern language	3	Chemistry 44	2
Physics 1	5	Military	1

The College Curricula

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester.</i>	
Subject	Hours	Subject	Hours
Chemistry 83, †4	2	Chemistry 72	2
Chemistry 53	3	Chemistry 82, †4	2
Chemistry 55, †4	2	Chemistry 66, †4	2
Chemistry 71	3	Chemistry 74, †6	3
Chemistry 81	2	Chemistry 84	2
Chemistry 27	1	Electrical Engineering 30	2
Mechanics 11	3	Forestry 2	2
Civil Engineering 33	1	Elective	2
German 15	2		
Forestry 9	1		

SENIOR YEAR

Chemistry 77	3	Chemistry 98, †10	5
Chemistry 80, †4	2	Chemistry 86, †2	1
Chemistry 87, †4	2	Chemistry 88	2
Chemistry 93	1	Mechanical Engineering 14	2
Electrical Engineering 35	2	Mechanical Engineering 94	1½
Electrical Engineering 33, †4	2	Economics 6	3
English 15	2	Elective	3
Civil Engineering 35	2		
Mechanical Engineering 99	2		

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Chemical Engineer.

Chemistry Curriculum

This curriculum is designed to give the student not only a thorough technical training, but also a breadth of education which will enable him readily to undertake the great variety of problems which naturally present themselves to a chemist. It differs from the Chemical Engineering curriculum in that in the last two years the student takes courses having a biological aspect (bacteriology, biological chemistry, and agricultural analysis) rather than those of an engineering type.

College of Technology

The curriculum is a broad one and, when completed, it prepares the student to teach, or for the profession of chemist in experiment stations, food laboratories, chemical fertilizer and tanning plants; metallurgical, rubber and electrical machinery manufactories; and the general consulting and analytical work of a professional chemist.

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2 or 4	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 1, *6	2	Drawing 2, *6	2
English 5	3	English 6	3
French 3 or German 1	3	French 4 or German 2	2
Mathematics 1 & 3	5	Mathematics 6	5
Military 1, *3	1	Military 1, *3	1
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Chemistry 11, †10	5	Chemistry 60, †10	5
Chemistry 17, †4	2	Chemistry 52, 3 and †4	5
English 3	1	Eng'ish 4	1
Mathematics 13	3	Modern language	2
Modern language	3	Military 1, *3	1
Military 1, *3	1	Physics 2	3
Physics 1	5	Physics 4, †5	2

JUNIOR YEAR

Biological Chemistry 1	5	Agricultural Chemistry 4, †10	5
Chemistry 53	3	Bacteriology 1, †6	3
Chemistry 71	3	Chemistry 74, †6	3
Chemistry 75	2	Chemistry 72	2
Chemistry 63, †8	4	Modern language	2
Modern language	3	Elective	4

The College Curricula

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 57, †6	3	Chemistry 98, †10	5
Chemistry 101	3	Chemistry 76	2
Chemistry 77	2	Chemistry 94	1
Chemistry 61, †4	2	Chemistry 104, †8	4
Chemistry 105 or Geology 3..	2	Elective	5
English 15	2		
Elective	3		

Civil Engineering Curriculum

The object of the curriculum in Civil Engineering is to give the student as thorough a knowledge as possible of the principles underlying the profession. The attempt is made to give the student not only a technical education, but to form the basis for a liberal one as well.

The endeavor is made to impress upon the mind of the student that the granting of his bachelor's degree does not make him an engineer. It simply indicates that he has received the mental technical training which will fit him to follow the profession, and that he must begin at the bottom of the ladder of practice in order to obtain experience and judgment, without which he can never become successful.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice and with the standard engineering literature.

The work of the first year is the same for all engineering students, especial attention being paid to mathematics and English. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased, until the last year when it is nearly all professional. At the beginning of the fourth year an opportunity is offered to specialize slightly along one of three lines. The first, called Option 1, consists of work in hydraulic engineering and electrical transmission, the second, Option 2, consists of work in railroad engineering, while Option 3 consists of work in highway engineering.

The following outline constitutes the regular four years' curriculum. Certain general subjects which are given as requirements may, on presentation of reasons satisfactory to the head of the department, be omitted and others substituted.

College of Technology

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2 or 4	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 1, *6	2	Drawing 2, *6	2
English 5	3	English 6	3
Mathematics 1 and 3	5	Mathematics 8	5
Military 1, *3	1	Military 1, *3	1
Modern language	3	Modern language	2
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Civil Engineering 1, 5	2 $\frac{1}{2}$	Civil Engineering 2, 4	2
Drawing 3, *6	2	Civil Engineering 6, 8	3
English 3	1	Drawing 4, *6	2
Mathematics 7	5	English 4	1
Military 1, *3	1	Mathematics 8	5
Modern language	3	Military 1, *3	1
Physics 1	5	Modern language	2
		Physics 2	3
		Physics 4, †5	2

JUNIOR YEAR

Civil Engineering 25	2	Civil Engineering 20	2
Civil Engineering 21, 23, *6 ..	2	Civil Engineering 22	2
Civil Engineering 29	2	Civil Engineering 26	3
Economics 1b	2	Civil Engineering 28	3
Geology 6	2	Economics 2b	2
Mechanics 51	5	Mechanics 52	5
Mathematics 57	3	Mechanical Engineering 74, †2	1
Physics 51, †2 $\frac{1}{2}$	1	*Civil Engineering 24	2

*Taken after Commencement

The College Curricula

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Civil Engineering 57	3	Civil Engineering 58	3
Civil Engineering 67	1	Civil Engineering 60	2
Civil Engineering 59, 15 ..	4½	Civil Engineering 62, †6	3
Civil Engineering 55 and 51		Civil Engineering 52 and Elec-	
(Option 1)	4	trical Engineering 42 (Op-	
Civil Engineering 63 and 53		tion 1)	5
(Option 2)	4	Civil Engineering 72 and 74	
Civil Engineering 69 and 53		(Option 3)	5
(Option 3)	4	Civil Engineering 70, †2	1
History 5	2	Economics 6	3
English 15 or 31	2		

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thoro understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

It is the endeavor of the curriculum to acquaint the student with contemporary engineering practice and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and allied engineering courses, together with the cultural subjects enumerated below.

College of Technology

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 1, *6	2	Drawing 2, *6	2
English 5	3	English 6	3
Mathematics 1 & 3	5	Mathematics 6	5
Military 1, *3	1	Military 1, *3	1
Modern language	3	Modern language	2
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Electrical Engineering 1	2	Electrical Engineering 2	2
English 3	1	English 4	1
Modern language	3	Modern Language	2
Mathematics 7	5	Mathematics 8	5
Physics 1	5	Physics 2	3
Drawing 3, *6	2	Physics Laboratory 4, †5	2
Military 1, *3	1	Mechanical Eng. 56	3
		Drawing 4, *6	2
		Military 1, *3	1

JUNIOR YEAR

Electrical Engineering 5	3	Electrical Engineering 50	3
Mechanics 51	5	Electrical Engineering 8, *4 ..	2
Mechanical Engineering 7, *4 ..	$1\frac{1}{2}$	Mechanics 52	5
Economics 1b	2	Electrical Engineering 8, *4 ..	2
Civil Engineering 3	2	Economics 2b	2
Civil Engineering 4, *6	$\frac{1}{2}$	Mechanical Engineering 66 ..	3
Physics 53, †7 $\frac{1}{2}$	3	Mechanical Engineering 80 ..	3
Elective	2		

The College Curricula

SENIOR YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
Subject		Hours	Subject		Hours
Electrical Engineering 51	...	3	Electrical Engineering 52	...	2½
Electrical Engineering 53	...	2	Electrical Engineering 54	...	1
Electrical Engineering 55, †4	..	2	Electrical Engineering 56	...	2½
Electrical Engineering 75, *4	..	1½	Electrical Engineering 58	...	2
Civil Engineering 33	.....	1	Electrical Engineering 76, †4	..	2
Civil Engineering 35	.....	2	Economics 6	.....	3
Mechanical Engineering 83	...	3	Elective	.....	2
Mechanical Engineering 77, †3		1½			
Elective	.....	2			

Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all work involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and ventilating or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering curriculum is arranged to fit men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses while those subjects which are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught mainly by recitations, based upon carefully chosen texts which are supplemented or brought down to date, where necessary, by explanations or illustrative examples on the part of the instructor. Numerous problems are assigned for work outside the class-room to make sure the student can apply the principles learned.

Courses in the shops and laboratories illustrate the application of matter learned in the recitation work, and also teach methods of con-

College of Technology

struction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, application of theories to work in design is taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thoro instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Sufficient time is devoted to recitation and field work in surveying to give familiarity with instruments and methods. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Chemistry 2	3
Chemistry 5, †4	2	Chemistry 6, †4	2
Drawing 1, *6	2	Drawing 2, *6	2
English 3	3	English 6	3
Mathematics 1 & 3	5	Mathematics 6	5
Military 1, *3	1	Military 1, *3	1
Modern language	3	Modern language	2
Physical training *2	$\frac{1}{2}$	Physical training *2	1

SOPHOMORE YEAR

Subject	Hours	Subject	Hours
Drawing 3, *6	2	Drawing 4, *6	2
English 3	1	English 4	1
Mathematics 7	5	Mathematics 8	5
Mechanical Engineering 1, *6	2	Mechanical Engineering 6, *4	1 $\frac{1}{2}$
Military 1, *3	1	Mechanical Engineering 56 ...	3
Modern language	3	Military 1, *3	1
Physics 1	5	Modern Language	2
		Physics 2	3
		Physics 4, †5	2

The College Curricula

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Mechanical Engineering 57 ...	1	Mechanical Engineering 8, *6..	2
Mechanical Engineering 7, *6..	2	Mechanical Engineering 66 ...	3
Mechanical Engineering 61 ...	2	Mechanical Engineering 80 ...	3
Mechanical Engineering 59, *4	1½	Mechanical Engineering 70, †2	1
Civil Engineering 3	2	Mechanical Engineering 64b, *3	1
Civil Engineering 5	½	Electrical Engineering 30	2
Mechanics 51	5	Mechanical Engineering 64a ..	1
Physics 51, ‡5	2	Mechanics 52	5
Economics 1a	2		
Physics 65	½		

SENIOR YEAR

Mechanical Engineering 83 ...	3	Mechanical Engineering 68 ...	1½
Mechanical Engineering 89, *3	1	Mechanical Engineering 72, †5	2½
Mechanical Engineering 71, †4	2	Mechanical Engineering 84 ...	2
Mechanical Engineering 67, *6	2	Mechanical Engineering 88, *6	2
Civil Engineering 33	1	*Mechanical Engineering 94 ..	1½
Civil Engineering 35	2	*Economics 60	3
Electrical Engineering 31	2	Electrical Engineering 32	2
Electrical Engineering 33, †4 ..	2	Electrical Engineering 34, †2..	1
Mechanical Engineering 91 ...	1	Seminar	1
Mechanical Engineering 99 ...	2	Thesis	
English	2		

*Substitution may be offered for this course if approved by the major instructor.

Pharmacy Curricula

The department of Pharmacy offers two curricula, one of four years and one of two years.

The four years curriculum is offered in response to a demand for a combined collegiate and technical training for those who design to practice pharmacy. It aims therefore to combine general culture studies with a training in those sciences fundamental to technical pharmacy, to the end that the pharmacist may be equipped culturally and techni-

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cally to fulfil the increased demands and responsibilities of his exacting calling. Hence, this curriculum includes the appropriate sciences and laboratory courses, it also includes cultural courses in modern languages, history, philosophy, and economics. While in the latter three subjects particular courses are not specified, a minimum number and proper sequence of such courses are required.

Those who intend to prepare for pharmaceutical work are urged to consider carefully the superior advantages of this curriculum. The increasing importance of the chemical, biological, and sanitary sciences, and of the pharmacist's relation to them, emphasized by the era of food and drug legislation now upon us, points out at once the path of new duty and of enlarged opportunity to those fitted to enter. To the unfit, the new duty remains, without the enlarged opportunity.

Instruction in pharmaceutical studies is given by lectures, recitations, and tests, supplemented by work in the laboratories of chemistry, biology, and pharmacy. Thirty credits are required for graduation.

The library contains valuable reference literature in chemistry, pharmacy, and allied sciences, and the leading scientific and technical journals.

REQUIREMENTS FOR GRADUATION, FOUR YEARS CURRICULUM

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 2	2	Chemistry 2	3
Chemistry 3, †4	2	Chemistry 6, †4	2
English 5	4	English 6	4
French 3 or German 2	2	French 4 or German 1b	2
Mathematics 1 & 3	5	Mathematics 2	3
Military 1, *3	1	Military 1, *3	1
Physical training *2	$\frac{1}{2}$	Physical training *2	1
		Mathematics 12	2

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SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Biology 1	4	Biology 2	4
Chemistry 11, †10	5	Chemistry 52	5
English 3	1	English 4	1
Military 2, *3	1	Military 2, *3	1
Modern language	3	Modern language	2
Physics 1	5	Physics 2	3
		Physics 4, ‡5	2

JUNIOR YEAR

Biological chemistry 1	5	Bacteriology 1, †6	3
Biology 15	3	Chemistry 60 †10	5
Chemistry 53	3	Laboratory biological chem-	
Pharmacy 13	3	istry 2, †4	2
Pharmacy 7	3	Pharmacy 2	4
Pharmacy 9	3	Pharmacy 16, †8	4
		Pharmacy 4	2

SENIOR YEAR

Pharmacy 11	2	Pharmacy 54	1
Pharmacy 17, †8	4	Pharmacy 14	5
Chemistry 61, †4	2	Pharmacy 18, †12	6
Pharmacy 3	3	Pharmacy 20	3
Elective	3	Pharmacy 58	2
Chemistry 41, †8	4	Pharmacy 22, †4	2
Pharmacy 51	2		

From courses in history, philosophy, and economics, a total of at least five hours must be chosen.

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one additional year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

Two Years Curriculum

This curriculum is designed for those who, for lack of time or for other reasons, are unable to take the curriculum of four years. The more general educational studies of the full curriculum are omitted,

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but as broad a range of subjects is offered as can be undertaken without sacrifice of thoroughness in the technical work. The curriculum corresponds, in general, to the usual full curriculum of pharmacy colleges. The work required of the student will occupy his whole time during the college year of nine months, and will usually exclude work in drug stores during term time. The brevity of this curriculum does not warrant extending to other than advanced students the privilege of electives.

FIRST YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3	2	Botany 14	3
Chemistry 11, †16	8	Chemistry 2	3
Pharmacy 13	3	Chemistry 52	5
Pharmacy 7	3	Pharmacy 16, †8	4
Pharmacy 9	3	Pharmacy 2	4
Pharmacy 11	2	Pharmacy 4	2

SECOND YEAR

Chemistry 53	3	Pharmacy 54	1
Pharmaceutical histology 15...	3	Pharmacy 18, †12	6
Pharmacy 3	3	Pharmacy 14	5
Pharmacy 17, †8	4	Pharmacy 58	2
Chemistry 41, †8	4	Pharmacy 20	3

DEPARTMENTS OF INSTRUCTION

NOTE: A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required; a double dagger (‡) indicates that two and one-half hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

CHEMISTRY

PROFESSOR MCKEE; ASSOCIATE PROFESSOR EASLEY; ASSISTANT PROFESSOR BURGHART; ASSISTANT PROFESSOR DURGIN; ASSISTANT PROFESSOR ASHLEY; ASSISTANT PROFESSOR STEPHENSON; MR. MITCHELL; MR. GOLDSMITH; MR. LANE

For undergraduates only

1. GENERAL CHEMISTRY.—This course deals with the general principles of the science. Lectures and recitations. Open to students who have taken chemistry in preparatory school. *Two hours a week.* To be accompanied by Course 5. Courses 1, 2, 5, and 6; or 3, 4, 5, and 6 constitute the first year's work in chemistry.

2. GENERAL CHEMISTRY.—This course is a continuation of Course 1. It is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. Lectures and recitations. *Three hours a week.* To be accompanied by Course 6.

3. GENERAL CHEMISTRY.—A course similar to 1 for those who have had no previous work in chemistry. *Two hours a week.* To be accompanied by Course 5.

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4. GENERAL CHEMISTRY.—A course similar to 2 but in continuation of 1 for those who did not take chemistry in the preparatory school. *Three hours a week.* To be accompanied by Course 6.

5. LABORATORY CHEMISTRY.—Laboratory work to accompany Course 1, or Course 3. †*Four hours a week.*

6. LABORATORY CHEMISTRY.—A continuation of Course 5 to accompany Course 2, or Course 4. †*Four hours a week.*

11. QUALITATIVE ANALYSIS.—This course includes the general reactions of the metals and acids with their qualitative separation. The subject is studied from the standpoint of the law of mass action and the ionic theory. †*Ten to sixteen hours a week.*

15. ORGANIC CHEMISTRY.—An elementary one semester course in organic chemistry. Required of sophomores majoring in Agriculture. *Two hours class room and †two hours laboratory work a week.*

16. ORGANIC CHEMISTRY.—An elementary course giving in one semester a rapid view of the subject. Students who have sufficient time available are advised to take Courses 52 and 53 instead of this course, or Course 15. No prerequisite other than general chemistry. *Three hours class room and †four hours laboratory work a week.*

17. GAS AND FUEL ANALYSIS.—The work consists in the analysis of fuel and flue gases and the determinations of the proximate constituents and heating values of peat, fuel oils, and the common coals. †*Four hours a week.*

20. DESCRIPTIVE MINERALOGY.—An elementary course in which the minerals are largely identified by their physical properties. Open to all students. *Four hours a week.*

27. LUBRICATION.—A study of lubricants, bearings, and methods of lubrication. *Two hours a week.* First nine weeks.

41. ANALYSIS OF PHARMACEUTICAL PRODUCTS.—The work includes the simpler methods of quantitative analysis, especially those methods of interest to students in pharmacy. †*Eight hours a week.*

44. PAPER MILL MACHINERY.—The study of simple mechanism is followed by the study of machines common to the manufacture of paper of various kinds. *Two hours a week.*

For graduates and undergraduates

52. ORGANIC CHEMISTRY.—The work is principally with the compounds of the aliphatic series. Lectures, recitations, and laboratory work. Open to those who have taken Course II. *Three hours class room; †four hours laboratory work a week.*

53. ORGANIC CHEMISTRY.—A continuation of Course 52. The work is chiefly in the aromatic series. *Three hours a week.*

54. ORGANIC ANALYSIS.—The methods for the quantitative determination in organic substances of carbon hydrogen, nitrogen, sulphur, and the halogens. Open to those who have completed Courses 52 and 53. *†Four hours a week.*

55. CELLULOSE.—A laboratory course in which are studied the chemical reactions and characteristics of the commoner forms of cellulose. *†Four hours a week.*

57. ORGANIC PREPARATIONS.—The work consists in the preparation and study of typical organic compounds. This course must be preceded by Courses 52, 53. *†Six hours a week.*

58. DYEING.—The practical application of dyes to cotton, wool, and silk. *†Fifteen hours a week for two weeks.*

60. ELEMENTARY QUANTITATIVE ANALYSIS.—An introductory course illustrating the fundamental principles of gravimetric and volumetric methods. Open to students who have had Course II. *†Ten hours a week.*

61, 62. VOLUMETRIC ANALYSIS.—The student is made familiar with the common methods of volumetric analysis in addition to the simpler volumetric methods used in Course 60 which is a prerequisite. *†Four hours a week, either semester.*

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63. QUANTITATIVE ANALYSIS.—Analysis of alloys, minerals, etc. Both gravimetric and volumetric methods are used. Open to students who have taken Course 60. †*Eight hours a week.*

64. ASSAYING.—The fire assay of typical ores for gold and silver. †*Four hours a week.*

66. WATER ANALYSIS.—The analysis of water is studied both from the sanitary and from the industrial standpoint. Open to students who have taken Course 60. †*Four hours a week.*

67. ELECTRO ANALYSIS.—The electrolytic methods of quantitative analysis for copper, nickel, lead, and similar determinations. Open to students who have taken Course 60. †*Four hours a week.*

68. CHEMICAL CALCULATIONS. The calculation of the results of chemical analyses by the use of graphic schemes, slide rules, factors and tables. Methods of changing routine analytic work so that the calculations may be simplified. The use of density tables as used commercially. *Two hours a week.*

70. FUEL AND GAS CALCULATIONS. The methods of calculating the heat value of a coal, the constant of a calorimeter, the heat losses of a furnace and similar problems. *Two hours a week.* Last nine weeks.

71, 72. PHYSICAL CHEMISTRY.—This course is devoted to the study of some of the more important principles and methods of physical chemistry in its several branches. Lectures and recitations. Open to students who have completed Chemistry 60, Mathematics 13, and Physics 1, 2, 4. *Three hours a week, fall semester; two hours a week, spring semester.*

74. PHYSICAL-CHEMICAL METHODS.—Determination of molecular weights; the study of solutions through conductivity and other methods; rate of reaction and chemical equilibrium; potential and electromotive force; calorimetry; and the use of the more important instruments such as refractometer, polariscope, and spectroscope †*Six hours a week.*

75. METALLURGY OF IRON AND STEEL.—The occurrence, methods of extraction, properties, and alloys of iron. Open to students who have completed Courses 1, 2, 5, 6 or 3, 4, 5, 6. *Two hours a week.*

Chemistry

76. METALLURGY OF THE METALS OTHER THAN IRON.—A course similar to Course 75. The metals other than iron and steel are studied. Open to students who have completed Course 11. *Two hours a week.*

77. INDUSTRIAL CHEMISTRY.—General processes of technical chemistry, and selected topics, including the principal manufactured products of special interest. Lectures and recitations. As a part of this course an inspection trip is made to manufacturing plants of a chemical nature in New England. The expense of this trip the last few years has varied from \$15 to \$25 a year. Open to students who have completed Courses 11, 52, 53, 60. *Three hours a week.*

81. PAPER.—A lecture course on paper and the various processes of present day paper making. Open to those who have completed Courses 11, 52. *Two hours a week.*

82. PAPER MANUFACTURE.—A laboratory course in which paper machinery will be studied and paper of various kinds will be made. This course should be preceded by course 81. †*Four hours a week.*

83. THE MAKING OF PULP.—A laboratory course in paper pulp mill chemistry. The work taken up is that ordinarily falling to the chemist of a pulp mill of either the soda, sulphate, or sulphite type. Open to students who have completed Course 60. †*Four hours a week.*

84. PULP.—A lecture course on the processes of manufacturing paper pulp. The uses of pulp other than in the manufacture of paper will also be discussed. *Two hours a week.*

86. BLEACHING OF PULP.—A laboratory course dealing with the methods of bleaching various kinds of pulp. Open to those who have taken Courses 82, 83. †*Four hours a week.* Last nine weeks.

87. PAPER TESTING. The testing of paper for bursting strength, tensile strength, stretch, crumpling, etc. Also the methods for estimating the kinds and percentages of the various fibers present in a sample of paper. †*Four hours a week.*

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88. PAPER COLORING.—A laboratory course on mordants, dye-stuffs, and their applications, testing, retention, matching of shades, etc. Open to those who have completed Course 55. †*Four hours a week.*

89. PAPER PROBLEMS.—A laboratory course for the study of selected processes of paper manufacture, as beating, sizing, loading, finishing, etc. Course 82 is a prerequisite. †*Four hours a week.*

93, 94. CHEMICAL LITERATURE.—Reviews and discussions of leading articles appearing in current English, German, and French chemical literature. Open to juniors majoring in the department who have completed the required work in modern languages. *One hour a week*, either semester.

96. MINERALOGY.—Open to those who have completed Course 60. †*Four hours a week.*

98, 99. THESIS WORK.—The thesis will embody the result of the study of a special problem in the laboratory. This problem will partake of the nature of original research and will ordinarily require *not less than* †*Ten hours a week.*

Primarily for graduates

101. ADVANCED ORGANIC CHEMISTRY.—A series of lectures on special topics in organic chemistry. Open to students who have completed Courses 52, 53. *Three hours a week.*

102, 103. QUALITATIVE ANALYSIS.—This course is similar to Course 11, but deals with organic compounds. It must be preceded by Courses 52, 53. †*Four hours a week*, either semester.

104. TECHNICAL ANALYSIS.—An advanced course in the analysis of ores and industrial products. Open to students who have completed Courses 60, 63. †*Eight hours a week.*

105. ELECTROCHEMISTRY.—A lecture course on the general principles of the subject and its applications in industrial work. Open to students who have completed Courses 71, 72. *Two hours a week.*

Chemistry

Laboratory fees covering general chemicals, gas, etc., are as follows: Courses 5, 6, 11, 60, 98, 99, \$5; Courses 16, 41, 52, 57, 63, 74, 104, \$3; Courses 15, 17, 20, 54, 58, 61, 62, 64, 66, 67, 82, 83, 85, 87, 88, 89, 102, 103, \$2.

Broken apparatus and special chemicals are paid for at the chemical supply room by use of a "breakage card" obtained from the Treasurer's office. The portion of this card which has not been used will be redeemed at the end of the semester.

For courses in biological and agricultural chemistry, see the description of courses given by the department of Biological and Agricultural Chemistry.

SUMMER TERM

PROFESSOR MCKEE; ASSOCIATE PROFESSOR EASLEY; ASSISTANT PROFESSOR BURGHART

- 3S. GENERAL CHEMISTRY.—A course of lectures and demonstrations on elementary chemistry. No previous knowledge of the subject is assumed. The course deals chiefly with the non-metals.
- 4S. GENERAL CHEMISTRY.—A continuation of Course 3S dealing chiefly with the metals.
- 17S. GAS AND FUEL ANALYSIS.—This work consists in the analysis of fuel and flue gases and the determination of the proximate constituents and heating values of the more common fuels. *Ten hours of laboratory work each week.*
- 51S. ORGANIC CHEMISTRY.—This is a general introductory course in the subject open to those who have had the freshman course in general chemistry or its equivalent. It is generally, though not necessarily, accompanied by laboratory work in the subject.
- 55S. CELLULOSE AND ITS USE IN PAPER MAKING.—Open to students who have had an elementary course in organic chemistry.
- 73S. PHYSICAL CHEMISTRY.—Lectures on selected chapters of the subject touching upon the following phases: molecular structure, the mass law, the theories of solution and their applications, especially along the line of electro-chemistry.

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91s. INORGANIC PREPARATIONS.—A laboratory course in the purification and preparation of typical inorganic compounds. *Ten hours of laboratory work each week.*

92s. METHODS OF LABORATORY MANIPULATION.—Glass bending, blowing, cutting, boring, and annealing; sealing of wires into glass and repair of glass apparatus; soldering of the more common metals; methods of labeling; stains, varnishes, and lacquers for wood and metal apparatus; setting up of apparatus. *Six hours of laboratory work each week.*

LABORATORY WORK in general chemistry, qualitative analysis, quantitative analysis, physical chemistry and organic chemistry will be arranged according to the needs of those attending the Summer Term.

GRADUATE WORK.—Attention is called to the courses that may be taken for graduate credit by those who already have a bachelor's degree (Courses 51s, 73s, 91s, 92s, and several of the courses indicated under "Laboratory Work"). It is the custom of the department to vary from year to year the courses offered in such a way that a student attending several successive summers will be able to complete the work necessary for a Master's degree. The fact that a considerable part of this work is of a laboratory character enables it to be varied in order and character to suit the needs of the individual student.

CIVIL ENGINEERING

PROFESSOR BOARDMAN; PROFESSOR BROWN; ASSOCIATE PROFESSOR KAUFFUSS; ACTING ASSOCIATE PROFESSOR SPRAGUE; ASSISTANT PROFESSOR LYON; MR. DONEGAN; MR. DAVIS

For undergraduates only

1. PLANE SURVEYING.—Recitations, lectures and field work. The recitations and lectures cover the general theory of plane surveying; description of surveying equipment, and the adjustment of the instruments; use of the chain, tape, compass, transit, and level, and other surveying operations. The field work consists of practice in the use of

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the chain, tape, compass, transit, level and other surveying equipment. Required of all students in the departments of Civil Engineering and Forestry. (Subdivision of field and recitation work determined by the instructor. The work shall be the equivalent of twenty-seven periods of recitations or lectures and fifty-four periods of field work.)

2. PLOTTING.—This course consists chiefly of map drawing from field notes, by the different methods in common use. Course 1 is prerequisite. **Six hours a week.* First twelve weeks.

3. PLANE SURVEYING.—A course similar to the recitations and lectures in Course 1, given to students in the departments of Mechanical and Electrical Engineering. *Two hours a week.*

4. FIELD WORK IN SURVEYING.—A continuation of the field work in Course 1. This course consists of original surveys, problem work, adjustment of instruments, note keeping, etc. Course 1 is prerequisite. **Six hours a week.* Last six weeks.

5. FIELD WORK IN SURVEYING.—The use of the chain, compass, transit, and level. Required of all students in the departments of Mechanical Engineering and Electrical Engineering. **Six hours a week.* First six weeks.

6. RAILROAD CURVES.—A course of recitations and lectures investigating the geometry of railroad curves, switches and turnouts. Course 1 or 3 is prerequisite. *Three hours a week.* First twelve weeks.

8. RAILROAD FIELD WORK.—This course consists of practice in running in railroad curves and turnouts. A general application of the theories of Course 6. Course 5 or Course 6 is prerequisite. †*Six hours a week.* Last six weeks.

20. MASONRY CONSTRUCTION.—A course including the discussion of building stone and brick; cement and their tests; mortar; plain and reinforced concrete; foundations; pneumatic caissons; culverts; bridge piers, and abutments. *Two hours a week.*

21. RAILROAD FIELD WORK.—The survey for a railroad about three miles in length. The preliminary and location surveys are made, includ-

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ing running in the curves, obtaining the topography, establishing the grade, and setting the slope stakes. Courses 4, 6, 8, or Courses 4, 27 are prerequisite. **Six hours a week. First nine weeks.*

22. ADVANCED SURVEYING.—This course consists of lectures, readings and recitations on the theory of base line measurement, triangulation, precise leveling, topographical surveying, the use of the plane table, and the theory and application of least squares. It is a preparation for Course 24. Course 21 is prerequisite. *Two hours a week.*

23. RAILROAD OFFICE WORK.—The office work of mapping the notes taken in Course 21, including the calculation of the earth work. Courses 2, 21 are prerequisite. **Six hours a week. Last nine weeks.*

24. SUMMER FIELD WORK.—This course consists of the practical application in the field and in the office of the principles given in Course 22. The work is given during the two weeks following Commencement. Course 22 is prerequisite.

25. RAILROAD CONSTRUCTION.—Recitations and lectures on the field and office practice of staking out and computing amount of excavation and fill; borrow-pits; haul; methods and materials of railroad construction; subgrade; roadbed; track and track work. Course 6 is prerequisite. *Two hours a week.*

26. HYDRAULICS.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. *Three hours a week.*

27. SIMPLE CURVES AND EARTHWORK.—A lecture course on the theory and practice of simple railroad curves, and on the field and office practice of staking out and computing earthwork. Given to students outside of the department of Civil Engineering who desire to take Courses 21 and 23. Courses 1, 4 or Courses 3, 5 are prerequisites. *One hour a week.*

28. STRUCTURES.—The theory of the simple beam; loads and reactions; vertical shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and

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bending moment under different systems of loadings, and to familiarize him with the use of steel hand books, various tables, and the slide rule. Class room, *Two hours a week*. Drawing room, †*Two hours a week*.

29. MUNICIPAL ENGINEERING.—The construction and improvement of city streets and pavements under different conditions of climate and traffic; general principles of sewer design; a study of city sanitation, water supply, and sewage disposal. Course 1 or 3 is prerequisite. *Two hours a week*.

31. ROADS AND TRAILS.—This course consists of lectures on the practice of building and maintaining trails and ordinary types of roads, and includes the design of simple beams and girders.

33. FOUNDATIONS.—Building stones; manufacture of cement; tests of cement; mortar; concrete, both plain and reinforced; foundations. This is a course of lectures given to students in the departments of Mechanical and Electrical Engineering. *One hour a week*.

35. HYDRAULICS.—A short course which includes the main principles given in Course 26. Given to students in the departments of Mechanical and Electrical Engineering. *Two hours a week*.

THESIS WORK.—The study of and report upon some original investigation, or design. *Time to be arranged*. See regulations regarding degrees.

For graduates and undergraduates

51. HYDRAULIC FIELD WORK.—The measurement of the flow of rivers is illustrated by the use of the current meter. The data thus obtained is used, to plot the rating curves, etc. The measurements taken are reported to the U. S. G. Survey. The expenses of this course are paid by the students. Required of students taking Option 1. Course 26 is prerequisite. †*Four hours a week*.

52. HYDRAULIC ENGINEERING.—A continuation of Course 51. Course 51 is prerequisite. *Three hours a week*.

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53. HYDRAULIC FIELD WORK.—A short course similar to Course 51. Required of students taking Options 2 and 3. Course 26 is prerequisite. †*Two hours a week.*

55. HYDRAULIC ENGINEERING.—Rainfall, evaporation, and stream flow; the development and utilization of water power; the development of the modern turbine. Lectures and recitations. Required of students electing Option 1. Course 26 is prerequisite. *Two hours a week.*

57. STRUCTURES.—A continuation of Course 28. The theory of stresses in framed structures, including the plate girder, bridge trusses, and roof trusses; reinforced concrete; the principles of designing. The object of this course is to train the student in the application of the principles of mechanics to the design of structures. *Three hours a week.*

58. STRUCTURES.—A continuation of Course 57. This course includes a study of the higher types of structures. *Three hours a week.*

59. DESIGNING.—This course takes up the design for some of the common types of steel structures, and the preparation of the shop drawings. Course 28 is prerequisite. †*Nine hours a week.*

60. GRAPHIC STATICS.—Class and drawing room work in the graphical determination of shear and bending moment, and the analysis of bridge and roof trusses by graphical methods. Course 57 is prerequisite. *Two hours a week.*

62. DESIGNING.—A continuation of Course 59. Course 57 is prerequisite. †*Six hours a week.*

63. RAILROAD ENGINEERING.—A course discussing the economics of railroad location and operation. The railroad corporation, its rights and limitations; traffic; operating expenses; the locomotive and its work; distance; curves; grades. Required of students electing Option 2. Course 25 is prerequisite. *Three hours a week.*

64. RAILROAD ENGINEERING.—A course in railroad design. A map reconnaissance for a railroad about twelve to fifteen miles in length is

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made, applying the theories of Course 63. The final line is located, profile made, grades established, and drainage areas and culverts calculated. The rails, switch points, frogs, and ties for a turnout are designed. A railroad yard layout is computed and plotted. Required of students electing Option 2. Courses 23, 63 are prerequisites. †*Six hours a week.*

66. RAILROAD ENGINEERING.—A course of lectures and recitations studying various railroad problems; structures; trestles; culverts; grade crossings and elimination; yards and terminals; signals and interlocking; maintenance and betterment work. Required of students electing Option 2. Course 63 is prerequisite. *Two hours a week.*

67. CEMENT LABORATORY.—This course consists of making the regulation commercial tests upon different samples of cement. A laboratory fee sufficient to cover the cost of materials used is charged. Required of students in Mechanical Engineering and in Civil Engineering. Course 20 is prerequisite for students in Civil Engineering. *The time varies.*

69. HIGHWAY ENGINEERING.—The location, drainage, construction, and maintenance of country roads under various conditions of soil, climate, traffic, etc.; highway economics, legislation and administration. Required of students electing Option 3. Course 29 is prerequisite. *Three hours a week.*

70. ROAD MATERIALS LABORATORY.—Physical and chemical tests of sand, gravel, stone, brick, wood block, bituminous compounds, and other road materials. Course 29 and Chemistry 1 or 3, 2 or 4, 5, 6 are prerequisites. **Three hours per week.*

72. HIGHWAY DESIGN.—Drawing room study of highway location and relocation including plans of proposed improvement and construction of 5 miles of highway. Details estimates and specifications for same. Required of students electing Option 3. Course 69 is prerequisite. †*Six hours a week.*

74. HIGHWAY ENGINEERING.—An advanced course of lectures and recitations in highway economics, administration and legislation; general highway engineering problems. Required of students electing Option 3. Course 69 is prerequisite. *Two hours a week.*

ELECTRICAL ENGINEERING

PROFESSOR BARROWS; ASSOCIATE PROFESSOR CHILDS; MR. CHESWELL;
MR. JAMES

For undergraduates only

1, 2. ELEMENTARY ELECTRICITY.—Fundamental laws and principles of electricity, series and parallel circuits, electrical instruments, electrical measurements. Recitations and problems. *Two hours a week.*

5. ELEMENTS OF ELECTRICAL ENGINEERING.—Application of laws studied in Course 1 and 2, the magnetic circuit, the fundamental study of electrical apparatus. Recitations and problems. *Three hours a week.*

8. LABORATORY WORK.—Electrical measurements, operation and testing of direct current generators and motors. Application of the work of courses 1, 2, 5, 50. Laboratory fee \$3.00. *Four hours a week.*

30. DIRECT CURRENT MACHINERY.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the mechanical and chemical engineer. Recitations and problems. *Two hours a week.*

31. ALTERNATING CURRENTS.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. *Two hours a week.*

32. ELECTRICAL APPLICATIONS.—Application of electrical machinery to the problems of the mechanical engineer; machine drive, industrial application. Lectures, recitations, and problems. *Two hours a week.*

33, 34. ELECTRICAL LABORATORY.—These courses are based on Courses 30 and 31. Operation of direct current and alternating current generators and motors; electrical power measurements. Laboratory fee \$3.00. *†Four hours a week.*

35. ALTERNATING CURRENT APPARATUS.—Alternating current measurements and the operation of alternating current machinery. Lectures, recitations, and problems. *Two hours a week.*

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42. ELECTRICAL POWER.—Electrical measurements; the generation, transmission, and utilization of electrical power. Lectures, recitations, and problems. *Two hours a week.*

For graduates and undergraduates

50. ELEMENTS OF ELECTRICAL ENGINEERING.—A continuation of Course 5; principles of construction, operation, and testing of direct current generators and motors; general engineering problems. Lectures, recitations, and problems. *Three hours a week.*

51. ALTERNATING CURRENTS.—Effect of alternating currents upon various electric circuits; voltage; current and voltage relations in inductive and capacity circuits; the theory, construction, and operation of apparatus and machinery. Lectures, recitations, and problems. *Three hours a week.*

52. ADVANCED ALTERNATING CURRENTS.—A continuation of Course 51, polyphase apparatus; generation, transmission, distribution and utilization of polyphase power; problems involving previous courses. Lectures, recitations, and problems. *Two hours a week.*

53, 55. ELECTRICAL DESIGN.—The design and construction of direct and alternating current machinery; relation of design to operating characteristic. Lectures and recitations, *two hours a week.* Calculations and design, *four hours a week.*

54. TECHNICAL REVIEWS.—A study of some special phase of electrical engineering and the presentation of it to the class. *One hour a week.*

56. ELECTRICAL POWER PLANTS.—Electrical equipment of power plants; methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. *Two hours a week.*

58. ELECTRICAL TRANSMISSION.—High voltage long distance transmission; transmission line phenomena; methods and practice of securing most reliable service. Lectures, recitations, and problems. *Two hours a week.*

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60. WIRELESS TELEGRAPHY.—Fundamentals of wireless telegraphy and telephony. Detectors; sending; receiving; tuning. *Two hours a week.* Given in 1915-1916 and alternate years.

61. ILLUMINATING ENGINEERING.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. *Two hours a week.* Given in 1916-17 and alternate years.

63. TELEPHONE ENGINEERING.—Principles of telephone apparatus and circuits; telephone systems; party lines, trunk lines; central stations. Lectures and recitations. *Two hours a week.* Given in 1915-16 and alternate years.

64. ELECTRIC RAILWAY ENGINEERING.—Preliminary considerations in electric railway engineering; selection of proper equipment; car, bond, and transmission testing. Lectures, recitations, and problems. *Two hours a week.*

75, 76. LABORATORY WORK.—Alternating current measurements; operating, testing, and experimental work on power and lighting apparatus; alternating current instruments; generators, motors, transformers, synchronous converters, polyphase power measurements. Laboratory fee \$3.00. *Four hours a week.*

80. THESIS WORK.—The study of and report upon some original report or design. *Time to be arranged.* See regulations regarding degrees

MATHEMATICS

The courses in this department are described under the College of Arts and Sciences

Mechanical Engineering

MECHANICAL ENGINEERING

PROFESSOR SWEETSER; ASSOCIATE PROFESSOR LEKBERG; MR. DAVEE;
MR. CARTER; MR. JENNISON; MR. PARTRIDGE

For undergraduates only

1. WOODWORKING.—Graded exercises in woodworking designed to make the student familiar with tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of the making of complete patterns and core boxes from drawings. Charge for materials \$4.00. **Six hours a week.*

3. WOODWORKING.—A shorter course than Course 1, arranged for students in Agriculture and Chemical Engineering. Charge for materials \$4.00. **Four hours a week.*

6. FORGE WORK.—Forging; welding; tool dressing. A set of lathe tools and cold chisels for use in machine shop is made by each student. Charge for material \$5.00. **Four hours a week.*

7, 8. MACHINE WORK.—Exercises in chipping and filing; lathe work; exercises on planer, shaper, and milling machines; making cut gears, machinists' taps, etc. Course 6 is a prerequisite. Charge for materials \$5.00. **Six hours a week for mechanical engineers; *four hours a week for electrical engineers.*

11, 12. FOUNDRY WORK.—Foundry instruction is given in molding, mixing of materials, operation of cupolas, etc. The work is assigned in connection with Course 8, ten per cent of hours registered for under Course 8 being applied to foundry work.

14. POWER GENERATION AND APPLICATION.—A course arranged for students in Forestry and Chemical Engineering. Fuels; steam boilers; steam and gas engines; locomotives; log haulers, etc. *Two hours per week.*

15. HEATING AND VENTILATION.—A course arranged for students in Home Economics. *Two hours a week, first nine weeks.*

College of Technology

59. KINEMATICAL DRAWING.—Supplementary to Course 56 which is a prerequisite. The drawings are of cams, gear teeth, and graphical studies of kinematical problems. **Four hours a week.*

For graduates and undergraduates

56. KINEMATICS.—A study of motion in machine design; linkages, gears, cams, etc. *Three hours a week.*

57. MECHANISM OF MACHINES.—Lectures supplementing Course 56. Course 56 is a prerequisite. *Three hours a week*, for six weeks.

61. MATERIALS OF ENGINEERING.—Properties of the metals; timber, rope; protective coatings and preservatives. *Three hours a week.* First twelve weeks.

64a. GRAPHICS.—A course given in connection with Course 64b. Classroom work. *Two hours a week.* First nine weeks.

64b. GRAPHICS.—A drawing room course supplementing Course 64a. The problems assigned include graphical determination of center of gravity, bending moments of beams; shear diagrams; stresses in bridge members and roof trusses. **Three hours a week.*

66. MACHINE DESIGN.—A study of the designing of machines; proportioning of parts for strength, rigidity, etc. Mechanics 5, 6 are prerequisites. *Three hours a week.*

67. MACHINE DESIGN.—A continuation of Course 66, including the execution of the design of some typical machines. Course 66 is a prerequisite. **Six hours a week.*

68. VALVE GEARS.—A study of the principal steam engine valve motions; construction and use of valve diagrams; solution of practical problems in the drawing room. *One and one half hours a week.*

70. MECHANICAL LABORATORY.—Elementary experimental work such as calibration of instruments, simple tests, etc. Laboratory charge \$2.00. *Two hours a week.*

Mechanical Engineering

71. MECHANICAL LABORATORY.—Tests of materials, hydraulic testing, injectors, use of steam calorimeter, valve settings, etc. Laboratory charge \$3.00. †*Four hours a week.*

72. MECHANICAL LABORATORY.—Tests of steam engines, boilers, and gasoline engines. Laboratory charge \$3.00. †*Four hours a week.*

74. MECHANICAL LABORATORY.—A course arranged for students in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs; calibration of water meters. Laboratory charge \$2.00. †*Two hours a week.*

75. MECHANICAL LABORATORY.—A course arranged for students in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Laboratory charge \$2.00. †*Two hours a week.*

77. MECHANICAL LABORATORY.—A course arranged for students in Electrical Engineering. Calibration of instruments; testing of strength of materials; testing of steam engines, pumps, and fans. Laboratory charge, \$2.00. †*Three hours a week.*

80. HEAT ENGINEERING.—Fundamental theories of gas and steam, with illustrative problems of practical form. Laws of thermodynamics; laws of gases; characteristic equations for gases; kinds of expansion and compression; Carnot's cycle; heat quantities in steam; use of steam tables; steam equations; quality of steam; calorimeter; entropy; Mathematics 8 and Physics 1 and 2 are prerequisites. *Three hours a week.*

83. HEAT ENGINEERING.—Types and details of steam boilers, engines, and auxiliary machinery. Fuels; combustion; efficiency factors of the steam boiler plant; heat losses in the steam engine; compound steam engines; refrigeration; gas engine cycles and gas producer principles. For students in Electrical Engineering a study of steam turbines is included. Course 80 is a prerequisite. *Three hours a week.*

84. HEAT ENGINEERING.—A continuation of courses 80 and 83 dealing with steam engines; steam turbines; air compressors; refrigerating ma-

College of Technology

chinery, and gas engines; considerations affecting the design and efficiency of operation of heat motors; the layout of power plants; power plant economics. *Two hours a week.*

88. ENGINE DESIGN.—A study of problems affecting the design of a steam or gas engine with regard to their bearing on general machine design. An engine is partially designed in the drawing room. Courses 67 and 83 are prerequisite. **Six hours a week.*

89. STEAM BOILER DESIGN.—A study of the important points affecting the design of fire-tube and water-tube boilers, including the complete design of a boiler in the drawing room; preparation of the specifications for the boiler and design of a chimney. Course 66 is a prerequisite. **Three hours a week.*

91. HEATING AND VENTILATION.—Course 80 is a prerequisite. *Three hours a week.* First six weeks.

94. HYDRAULIC MACHINERY.—Hydraulic turbine; water wheels; various features of hydraulic power plant development. *Three hours a week.* First nine weeks.

96. SEMINARY.—Preparation, presentation, and discussion of papers on leading engineering topics. *One hour a week.*

99. FACTORY ORGANIZATION AND MANAGEMENT.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of management; factory design and construction. *Two hours a week.*

THESIS.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall semester of the senior year. See regulations regarding degrees.

MECHANICS AND DRAWING

PROFESSOR WESTON: ASSOCIATE PROFESSOR GROVER; MR. FARNHAM;
MR. LEIGHTON

For undergraduates only

1. DRAWING.—Instruction and practice in technical freehand drawing and lettering, in the care of drawing instruments, and their use in elementary problems involving right lines, circles, conic sections, and orthographic projections. **Six hours a week.*

2. DRAWING.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. **Six hours a week.*

3. DRAWING.—The elementary principles and problems of descriptive geometry, including intersections and developments. **Six hours a week.*

4. DRAWING.—A continued study of the making of working drawings of simple machines, together with instruction and practice in making titles for the same. **Six hours a week.*

9, 10. DRAWING.—A course designed especially for students in agriculture and for non-engineers. It combines the fundamental principles of Course 1 and Course 2. **Three hours a week.*

II. MECHANICS.—An elementary course in the fundamental principles of statics, kinematics and kinetics, with applications to practical problems, as friction, transmitting power of belts, stresses and strains of bodies subject to tension, compression and shearing, as beams and columns. For students in Chemical Engineering. *Three hours a week.*

For graduates and undergraduates

51, 52. MECHANICS.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding centre of gravity and moment of inertia; the study of

College of Technology

stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment and elastic curves; torsional stresses and theories of stress in long columns. *Five hour a week.*

Primarily for graduates

101. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, hydro-mechanics, etc. *Two hours a week.*

102. ADVANCED MECHANICS.—A continuation of Course 101. *Three hours a week.*

MILITARY SCIENCE AND TACTICS

The courses in this department are described on page 205.

PHARMACY

ASSOCIATE PROFESSOR JARRETT; DOCTOR CONNORS

2. ORGANIC PHARMACOGNOSY.—Macroscopic and microscopic study of organic drugs, identification, collection, and selection; active principles. *Four hours a week.*

3. MATERIA MEDICA.—The physical, chemical, physiological, and therapeutical properties of medicine; their doses; poisons and antidotes. *Three hours a week.*

4. INORGANIC PHARMACOGNOSY.—Macroscopic study of inorganic drugs, tests, etc. *Two hours a week.*

7. PHARMACEUTICAL CHEMISTRY.—Chemical formulae; principles; chemical reactions; equations, with special reference to pharmaceutical processes. *Three hours a week.*

9. PHARMACEUTICAL ARITHMETIC.—The arithmetic pertaining to the science and art of pharmacy; special emphasis placed on the metric system in all of its practical details; the accurate use of the various current weights and measures. *Three hours a week.*

Pharmacy

11. PHARMACEUTICAL LATIN.—The Latin pertaining to pharmacy; such essentials of inflection and syntax are taught as will serve the practical purpose of enabling the student to read prescriptions with ease and intelligence. *Two hours a week.*

13. THEORETICAL PHARMACY.—The exposition of the principles upon which pharmaceutical operations are based. This includes the study of pharmacopoeias, dispensatories, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; extemporaneous pharmacy; the principles of dispensing, etc. *Three hours a week.*

14. PHARMACOPOEIA.—A complete review of the pharmacopoeia with special reference to the chemical and pharmaceutical principles involved in the tests and preparations. *Five hours a week.*

16, 17. LABORATORY PHARMACY (MANUFACTURING).—The preparation of the most important U. S. P. galenicals and such additional U. S. P. and N. F. preparations as the time will permit, selecting the latter from those which require skill and careful manipulation. †*Eight hours a week.*

18. LABORATORY PHARMACY (DISPENSING).—This course teaches the compounding of medicine. The time is so arranged as to give a liberal number of hours for the actual work in the compounding of prescriptions. Incompatibilities, how to overcome them, etc. The work includes the preparation of solutions, mixtures, emulsions, pills, capsules, powders, cachets, tablets, tablet triturates, troches, ointments, plasters, suppositories, etc. †*Twelve hours a week.*

20. PRESCRIPTIONS.—This course includes the abbreviations and symbols used; reading, labeling, checking, and filing. Critical examination of prescriptions from actual files, with reference to principles, and to physiological, pharmaceutical, and chemical incompatibilities; doses; methods and order of compounding, etc. *Three hours a week.*

22. ADVANCED LABORATORY (Manufacturing).—Manufacture of toilet preparations, etc. †*Four hours a week.*

51. URINALYSIS AND TOXICOLOGY.—The analysis of urine and the detection of the most common poisons. *Two hours a week.*

College of Technology

54. PHARMACY READINGS.—Current pharmacy literature: research and reference readings; abstracting; reports and theme writing on various subjects pertaining to pharmacy. *One hour a week.*

58. COMMERCIAL PHARMACY.—Trade or commerce in pharmaceutical products. It includes bookkeeping, business correspondence, commercial and business law, and business practice. *Two hours a week.*

REQUIRED COURSES

MILITARY SCIENCE AND TACTICS

PROFESSOR CLARK

Of the following scheduled courses 1 to 4 inclusive are required of all freshmen and sophomores with the exceptions noted elsewhere; 5 to 8 inclusive are elective for juniors; and 9 and 12 are elective for seniors.

The required courses cover two years' instruction as laid down in War Department orders. For convenience in arranging the schedule, freshmen and sophomores are united in this instruction. Only Courses 1, 2 or 3, 4 will be given in the same year, Course 1 alternating with Course 2, and Course 2 with Course 4. It is necessary for each student to complete all four of these courses.

The elective courses are so scheduled that juniors and seniors may have the privilege of advanced theoretical military instruction in addition to the courses required for cadet officers. By action of the faculty, it is provided that for any junior or senior satisfactorily completing either Courses 5, 6, 9, or 10, as a cadet captain commanding a company, academic credit of three hours a week may be granted.

I. MILITARY SCIENCE AND TACTICS—

Three hours a week (counting one-fifth unit)

(a) PRACTICAL

U. S. infantry drill regulations, to include the schools of the soldier, squad, and company, in close order and extended order; indoor rifle practice.

(b) THEORETICAL

Lectures on military organization, methods, history, and policy; map reading; the service of information.

Required Courses

2. MILITARY SCIENCE AND TACTICS—

Three hours a week (counting one-fifth unit)

(a) PRACTICAL

U. S. Infantry drill regulations, to include the school of the battalion in close and extended order, and ceremonies; indoor rifle practice.

(b) THEORETICAL

The service of security; combat; supply in the field.

3. MILITARY SCIENCE AND TACTICS—

Three hours a week (counting one-fifth unit)

(a) PRACTICAL

The same as Course 1 (a).

(b) THEORETICAL

U. S. infantry drill regulations, to include the school of the company; small arms firing regulations; lectures.

4. MILITARY SCIENCE AND TACTICS—

Three hours a week (counting one-fifth unit)

(a) PRACTICAL

The same as course 2 (a).

(b) THEORETICAL

U. S. infantry drill regulations, to include the school of the battalion, and ceremonies; military hygiene and first aid.

5. MILITARY SCIENCE AND TACTICS—

Four hours a week (counting two-fifths unit)

(a) PRACTICAL

Duties consistent with rank as cadet officers in connection with Courses 1 (a) or 3 (a).

(b) THEORETICAL. Course 7.

6. MILITARY SCIENCE AND TACTICS—

Four hours a week (counting two-fifths unit)

PRACTICAL

Duties consistent with rank as cadet officers in connection with Course 2 (a) or 4 (a).

THEORETICAL. Course 8.

Required Courses

7. MILITARY SCIENCE AND TACTICS—
Minor tactics, field orders; administration, preparation of papers. *One hour a week* (counting one-fifth unit)
8. MILITARY SCIENCE AND TACTICS—
Minor tactics, continued; property accountability, requisitions and returns; manual of interior guard duty. *One hour a week* (counting one-fifth unit)
9. MILITARY SCIENCE AND TACTICS—
Four hours a week (counting two-fifths unit)
 - (a) PRACTICAL
Duties consistent with rank as cadet officers in connection with Courses 1 (a) or 3 (a).
 - (b) THEORETICAL. Course 11.
10. MILITARY SCIENCE AND TACTICS—
Four hours a week (counting two-fifths unit)
 - (a) PRACTICAL
Duties consistent with rank as cadet officers in connection with Courses 2 (a) or 4 (a).
 - (b) THEORETICAL. Course 12.
11. MILITARY SCIENCE AND TACTICS—
Tactical problems; the arms combined; map maneuvers; court-martial procedure. *One hour a week* (counting one-fifth unit)
12. MILITARY SCIENCE AND TACTICS—
Problems in mobilization and supply; American campaigns; the military law of Maine. *One hour a week* (counting one-fifth unit)

PHYSICAL CULTURE AND ATHLETICS

PROFESSOR WINGARD; MISS VAUGHAN; MR. SMITH

I. PHYSICAL TRAINING.—Class formation and figure marching; setting-up drills; free-arm and calisthenics movement: elementary dumb-bell, wand, and apparatus exercises. *One hour lecture and *two hours practice a week.*

Required Courses

2. PHYSICAL TRAINING.—Intermediate and advanced class exercises and combination apparatus work. *One hour lecture and *two hours practice a week.*

3. PHYSICAL TRAINING.—An elective advanced course. **Two hours gymnasium and two hours lecture.*

4. PHYSICAL TRAINING.—A continuation of Course 3. **Two hours gymnasium and two hours lecture.*

5. PRACTICAL HYGIENE.—*Two hours a week.*

6. PRACTICAL HYGIENE.—A continuation of Course 5. *Two hours a week.*

7, 8. PHYSICAL TRAINING.—A course for all women students of the first year and for students of second year Household Economics. Class formation; free exercises; elementary dumb-bell, Indian club, wand drills; folk-dancing and games. Attention is given to first principles of deportment. *Three hours a week.*

MAINE AGRICULTURAL EXPERIMENT STATION

STATION STAFF

CHARLES DAYTON WOODS, Sc. D.	<i>Director</i>
JAMES MONROE BARTLETT, M. S.	<i>Chemist</i>
WARNER JACKSON MORSE, Ph. D.	<i>Plant Pathologist</i>
RAYMOND PEARL, Ph. D.	<i>Biologist</i>
FRANK MACY SURFACE, Ph. D.	<i>Biologist</i>
EDITH MARION PATCH, Ph. D.	<i>Entomologist</i>
HERMAN HERBERT HANSON, M. S.	<i>Associate Chemist</i>
MAYNIE ROSE CURTIS, Ph. D.	<i>Assistant Biologist</i>
ROYDEN LINDSAY HAMMOND	<i>Seed Analyst and Photographer</i>
EDWARD EUGENE SAWYER, B. S.	<i>Assistant Chemist</i>
ELMER ROBERT TOBIE, B. S.	<i>Assistant Chemist</i>
MICHAEL SHAPOVALOV, M. S.	<i>Assistant Pathologist</i>
JOHN RICE MINER, B. A.	<i>Computer</i>
JACOB ZINN, Agr. D.	<i>Assistant Biologist</i>
WALTER HENRY ROGERS, B. S.	<i>Assistant Chemist</i>
CHARLES HARRY WHITE	<i>Scientific Aid</i>
WALTER EDSON CURTIS	<i>Scientific Aid</i>

GOVERNMENT OF THE STATION

By authority of the Trustees the affairs of the Station are considered by the Station Council, (see page 6), composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads of the various departments of the Station, the Dean of the College of Agriculture, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, the State Dairymen's Association, the Maine Live Stock Breed-

Experiment Station

ers' Association, and the Maine Seed Improvement Association. The recommendations of the Council are referred to the Trustees for final action. The Director is the executive officer of the Station and the other members of the staff carry out the lines of research that naturally come under their departments.

INCOME

The income of the Station for the year 1915-16 will probably be about \$60,000 from the following sources: Federal government, Hatch and Adams funds, \$30,000; State appropriations for animal husbandry investigations and investigations upon Aroostook Farm, \$5,000 each; sale of produce about \$8,000; analyses for the Commissioner of Agriculture about \$12,000. Thru appropriations to the university the State provides for the cost of printing Station publications. This aggregates about \$4,000 annually.

OBJECT

The purpose of the agricultural experiment stations is defined in the Act of Congress establishing them as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."

The work that the Station can undertake from the Adams Act fund is more restricted, as the fund can "be applied only to paying the necessary expenses of conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."

Experiment Station

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 25. The Station is well equipped in laboratories and apparatus, particularly in the lines of biological, chemical, entomological, horticultural, pomological, plant pathological, and poultry investigations. It has extensive collections illustrating the botany and entomology of the State. It has a library of over 4,200 volumes, comprising agricultural and biological journals and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station "shall conduct scientific investigations in orcharding, corn, and other farm crops." The farm is situated in the counties of Kennebec and Androscoggin, largely in the town of Monmouth. It is on the Farmington branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, "Highmoor," is on the farm.

The farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. There are in the neighborhood of 3,000 apple trees upon the place which have been set from 20 to 30 years. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar general farm crops. The house has two stories with a large wing, and contains about 15 rooms. It is well arranged for the Station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain. The basement affords limited storage for apples, potatoes, and roots.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be under "the general supervision, management, and control" of the Maine Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on the main road to Houlton. The Bangor and Aroostook railroad crosses the farm. A flag station, "Aroostook Farm," makes it easily accessible by rail.

The farm contains about 275 acres, about half of which is cleared. The eight room house provides an office, and home for the farm super-

Experiment Station

intendent. The large barn affords storage for hay and grain and has a large potato storage house in the basement.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, and entomological research.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, foods, fungicides and insecticides. The law requires the Commissioner to collect samples and have them analyzed at the Station. The law also requires the Director of the Station to make the analyses and publish the results.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in Bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year form a volume of 300 to 400 pages and together make up the annual report. Bulletins are sent to the press of the State, to exchanges, libraries, and scientific workers. Bulletins which contain matter of immediate value to practical agriculture are sent free to residents of Maine whose names are on the permanent mailing list.

Experiment Station

The results of the work of inspection are printed in pamphlet form and are termed Official Inspections. About twelve such pamphlets, aggregating 150 to 200 pages, are printed annually, and are bound as an appendix with the annual report. Official Inspections are sent to dealers within the State; those that have to do with fertilizers, feeding stuffs, and seeds are sent to farmers, and those reporting food and drugs are sent to a list of several thousand women within the State.

The Miscellaneous Publications consist of newspaper bulletins, circulars, and similar fleeting publications.. From twenty to thirty are published each year and are sent to different addresses according to the nature of the subject matter.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive either or both the Bulletins and Official Inspections as they are published.

SUMMER TERM

The Summer Term of the University of Maine is not a summer school, but so far as practicable the work is coordinate with that of the remainder of the year. The majority of the courses offered are of college grade, and, when completed, entitle the student to full credit on the university books. There are no examinations for admission, and students are permitted to enter any class in which they can satisfactorily carry on the work. Before counting this work toward a collegiate degree, the entrance conditions must be met.

Three classes of students may be benefited by the work of this term:

1. Teachers in the high schools and grammar schools who desire to fit themselves for more advanced positions. A small expenditure of time and money in the summer vacation may be the means of securing a more desirable position. School superintendents are coming to discriminate in favor of those teachers who advance in their work.

2. Students who desire to anticipate work in their curricula, or who may have work in arrears. A student should be able to make one unit, the equivalent of a five hours' subject for eighteen weeks.

3. Courses in physics, chemistry, mathematics, Latin, and other subjects are offered covering the work of the high school. In this way a student who is slightly deficient at the end of the school year may prepare himself for college. These courses give no credit on the university books.

COURSES OF STUDY

During the summer of 1915 courses were offered in the following subjects: Chemistry, Education, English, French, German, History, Horticulture, Latin, Mathematics, Physics, Sociology, and Spanish. These courses are described in connection with the courses offered at the university during the remainder of the year.

Summer Term

DAILY ASSEMBLY

Each morning except Saturdays and Sundays the faculty and students meet in the Chapel at 10.15 for a brief assembly. A short religious service is held, including a song service, and an address is given on some topic of current interest.

LIBRARY

Throughout the Summer Term, the university library of 56,000 volumes, and the reading rooms containing about 300 periodicals and the Maine daily papers, are open from 9 A. M. to 12 M. and from 2 P. M. to 5 P. M., daily, except Saturday afternoon and Sunday. The library privileges ordinarily accorded university students, including the home use of books, are extended to students in the Summer Term.

LABORATORIES AND OBSERVATORY

The laboratories of the departments of Physics and Chemistry are available for use of the students. There is ample provision for carrying on the various courses from the preparatory work to that of the graduate student. All necessary apparatus is supplied to the student without charge; a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The Observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the observatory will be explained by Professor Hart in an evening lecture.

RECREATION

The athletic field of the university is available for use. Certain afternoons from four to six are set aside each week for baseball games and other athletic events. A tennis tournament is organized for those interested.

Under the management of a permanent committee appointed for that purpose, tramps, picnics, and longer trips to neighboring places of interest will be arranged, as well as more informal occasions on the campus where the students have opportunity to meet each other and the members of the faculty.

For the further entertainment of the Summer Term students and their friends, the gymnasium will be open one evening of each week, where

Summer Term

music will be furnished and opportunity afforded for informal social intercourse.

EXPENSES

Tuition

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

An additional charge of \$1 an hour is made for registration in excess of fifteen hours a week.

Tuition covers all charges for instruction up to fifteen hours a week, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories.

Rooms for Men

There are two dormitories for men, Oak Hall and Hannibal Hamlin Hall, connected by a covered passage-way. Rooms may be obtained for \$2.00 a week for one person or \$2.50 with two in a room. In Hannibal Hamlin Hall there are a few higher priced rooms.

Rooms for Women

The dormitory used for women students in the Summer Term on the campus is the Mt. Vernon House. The rates are \$2.00 a week, one person in a room, or \$2.50 with two persons in a room. This house of old colonial style, with its wide hall, open fire-place, and its broad piazza, looking out upon a beautiful view of the campus, is a desirable place for summer residence.

Meals

In the dining room of Hannibal Hamlin Hall meals will be served for \$3.00 a week. Meals will be served in the Mt. Vernon House at \$5.00 a week.

The University Inn, located in the village of Orono, is under university management and is open for summer students. Rooms in private families may be secured for those who prefer them.

Men who wish to bring their families should write early. Special effort will be made to secure suitable accommodations.

Summer Term

IN GENERAL

Prospective students are invited to consult Dean J. S. Stevens, or any of the instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers of Maine, and others who desire to avail themselves of these privileges..

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the courses outlined in this catalogue were for the summer of 1915. Unimportant changes are likely to be made in 1916.

ALUMNI ASSOCIATIONS

GENERAL ASSOCIATION

President, Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.
Vice President, J. Harvey McClure, 1905, 49 Hammond St., Bangor
Recording Secretary, Fremont L. Russell, 1885, Orono
Alumni Secretary, Ralph K. Jones, 1886, Orono
Treasurer, James A. Gannett, 1908, Orono
Necrologist, James N. Hart, 1885, Orono

ADVISORY COUNCIL

AT LARGE

	Term Expires.
Charles S. Bickford, 1882, Belfast	1915
Paul L. Bean, 1904, State House, Augusta	1915
Edward H. Kelley, 1890, 2 Fairmount Park, East, Bangor	1916
C. Parker Crowell, 1908, 44 Central St., Bangor	1916
George H. Hamlin, 1873, Orono	1917
Albert H. Brown, 1880, Old Town	1917
Louis C. Southard, 1875, 601 Tremont Building, Boston, Mass.	1918
Charles E. Oak, 1876, 39 Hammond St., Bangor	1918
Perley B. Palmer, 1896, Orono	1919
Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.	1919

College of Agriculture

Whitman H. Jordan, 1875, Geneva, N. Y.....	1915
--	------

College of Law

Charles P. Conners, 1906, 49 Hammond St., Bangor	1916
DeForest H. Perkins, 1900, City Hall, Portland	1917

Alumni Associations

College of Technology

George F. Black, 1886, 238 St. John St., Portland 1918

SPECIAL ASSOCIATIONS

COLLEGE OF LAW

President, James M. Gillin, 12 Columbia Building, Bangor
Vice President, Forrest B. Snow, 1909, Bluehill
Secretary, Mark A. Barwise, 1913, 101 Third St., Bangor
Treasurer, Charles H. Reid, Jr., 1903, 7 Hammond St., Bangor

SCHOOL AND TEACHERS' COURSES IN AGRICULTURE

President, Walter S. Jones, 1912, State Hospital, Bangor
Vice Presidents, George P. Fogg, 1908; Arthur W. Richardson, 1913
Secretary-Treasurer, Perley F. Smith, 1912, R. F. D. 1, East Brownfield

LOCAL ASSOCIATIONS

Androscoggin Valley.—President, Walter L. Emerson, 1909; Secretary, Charles B. Hosmer, 1911, 64 Lisbon St., Lewiston
Boston.—President, Francis H. Bacon, 1876; Secretary, Elmer J. Wilson, 1907, 15 Clough St., Lynn, Mass.
Knox County.—President, A. P. Starrett, 1882; Secretary, R. S. Sherman, 1906, Tillson Wharf, Rockland
New York.—President, Philip Garland, 1912; Secretary, Ashton H. Hart, 1911, 161 Emerson Pl., Brooklyn, N. Y.
Pacific.—President, George R. Sweetser, 1909; Secretary, Walter W. Black, 1907, 527 Taylor St., Portland, Ore.
Penobscot Valley.—President, Harry M. Smith, 1893; Secretary, William R. Ballou, 1912, 50 Blackstone St., Bangor
Pittsburgh.—President, J. Wilson Brown, 1899; Secretary, Carl D. Smith, U. S. Bureau of Mines, 40th and Butler Sts.
Washington, D. C.—President, Lore A. Rogers, 1896; Secretary, Henry W. Bearce, 1906, Bureau of Standards
Western.—President, Charles A. Morse, 1879; Secretary, Samuel B. Lincoln, ex-1915, 619 First National Bank Building, Chicago, Ill.
Western Maine.—President, Edwin J. Haskell, 1872; Secretary, Albert E. Anderson, 1909, Masonic Temple, Portland

APPOINTMENTS

SPEAKERS AT THE JUNIOR EXHIBITION

Marie Frederica Foster, Sorrento; Earl Stephen Merrill, Orono; Ansel Alva Packard, Belfast; Samuel Rudman, Bangor; Dorothy Thompson, Orono.

SPEAKERS AT THE SOPHOMORE PRIZE DECLAMATION CONTEST

Leola Bowie Chaplin, Cornish; Philip Hacker Cobb, Denmark; Sumner Chase Cobb, Portland; Fred Donald Crowell, Bangor; Noel Davis Godfrey, South Lubec; Walter Converse Jones, Portland; Frances Louise Lougee, Winterport; Mary Elizabeth Sargent, Alton.

MEMBERS OF PHI KAPPA PHI

Miretta Lydia Bickford, Orono; Ava Harriet Chadbourne, Mattawamkeag; Muriel Colbath, Hampden; James Stuart Crandall, Malden, Mass.; Raymond Henry Fogler, West Rockport; Emma Gerhardt, Westbrook; Alleyn Maurice Goodwin, Saco; Elizabeth Fitzgerald Hanly, Thomaston; Ray Harrison Lindgren, Belfast; Gladys Helen Merrill, Orono; Harvey Prescott Sleeper, Bangor; Joseph Batchelder Parker, Bangor; Raymond Trussell Pierce, Bangor; Oscar Milton Wilbur, Pembroke; Earl Lytton Wing, Kingfield; Rachel Helene Winship, Auburn; Raymond Travena Woolson, Lisbon, N. H.

MEMBERS OF TAU BETA PI

1915

James Joseph Brennan, Bangor; Harold Cooper, Auburn; James Stuart Crandall, Malden, Mass.; Alleyn Maurice Goodwin, Saco; Herbert Charles Hodgkins, Waterville; Harold Walter Leavitt, Monmouth; Ray Harrison Lindgren, Belfast; Harris Gates Luther, Hadlyme, Conn.;

Appointments

Maurice Roy McKenney, Stillwater; Ervin Barrett Newcomb, Cumberland Mills; Walker Merriam Philbrook, Rockport; Raymond Trussell Pierce, Bangor; Harry Algernon Randall, South Portland; Harvey Prescott Sleeper, Bangor; Robert Freeman Thurrell, Portland; Jedediah Earle Weeks, Wells.

1916

Erlon Victor Crimmin, Winterport; Everett Goss Ham, Foxcroft; Otis Carroll Lawry, Fairfield; Ansel Alva Packard, Belfast; Omar Fred Tarr, Auburn.

MEMBERS OF ALPHA ZETA

1916

Donald Vince Atwater, Fort Fairfield; Charles Leon Blackman, Peaks Island; Arthur John Bower, Methuen, Mass.; Llewellyn Morse Dorsey, Augusta; Roger Locke Gowell, Poland; Archie Lewis Hamblen, Gorham; Fred Perley Loring, West Pownal; Guy Casley Palmer, Patten; Lawrence Eugene Philbrook, Shelburne, N. H.; Frederick Robie, Gorham.

1917

Charles William Bayley, Wells; Daniel Clair Hutchinson, Dover, Rudolph Stoehr, Sabattus; Russell Vale Waterhouse, Kennebunk; Donald Stuart Welch, Norway.

GENERAL HONORS

Harold Henry Beverage, North Haven; Miretta Lydia Bickford, Orono; James Joseph Brennan, Bangor; Muriel Colbath, Hampden; James Stuart Crandall, Malden, Mass.; Raymond Henry Fogler, West Rockport; Emma Gerhardts, Westbrook; Alleyn Maurice Goodwin, Saco; Ethel Mae Grey, South Penobscot; Elizabeth Fitzgerald Haniy, Thomaston; Ray Harrison Lindgren, Belfast; Harris Gates Luther, Hadlyme, Conn.; Gladys Helen Merrill, Orono; Joseph Batchelder Parker, Bangor; Raymond Trussell Pierce, Bangor; Harvey Prescott Sleeper, Bangor; Oscar Milton Wilbur, Pembroke; Rachel Helene Winship, Auburn.

SENIORS WHO HAVE SATISFACTORILY COMPLETED THE COURSES IN MILITARY SCIENCE

James Stuart Crandall, Malden, Mass; Stephen Paul Danforth, Foxcroft; Park Elliott, Foxcroft; Charles Sherman Erswell, Brunswick;

Appointments

Eugene Wiley Goodwin, Rockport; James Lucius Gulliver, Auburn;
Ernest Freeman Hanson, Gorham; Loren Prescott Stewart, Thorndike.

ORGANIZATION OF THE UNIVERSITY BATTALION OF CADETS

Frank S. Clark, 1st Lieutenant Coast Artillery Corps, U. S. Army,
Professor of Military Science and Tactics

Adjutant		Cadet 1st Lieutenant H. L. Jenkins
Ordnance Officer		Cadet 1st Lieutenant E. S. Fraser
In charge of Band		Cadet 1st Lieutenant L. H. Blood
Co. A	Cadet Captain	O. K. Edes
	Cadet 1st Lieutenant	A. L. Hamblen
	Cadet 1st Lieutenant	S. L. Reed
	Cadet 2nd Lieutenant	G. C. Robinson
Co. B	Cadet Captain	C. M. DeWitt
	Cadet 1st Lieutenant	N. F. Mank
	Cadet 2nd Lieutenant	J. L. Scribner
	Cadet 2nd Lieutenant	W. B. Littlefield
Co. C	Cadet Captain	R. H. G. Smith
	Cadet 1st Lieutenant	E. J. Dempsey
	Cadet 2nd Lieutenant	W. F. O'Donoghue
Co. D	Cadet Captain	H. W. Coffin
	Cadet 1st Lieutenant	G. W. Bell
	Cadet 2nd Lieutenant	LeR. Coombs
Co. E	Cadet Captain	A. A. Packard
	Cadet 1st Lieutenant	F. W. Gray
	Cadet 2nd Lieutenant	A. D. Hayden
	Cadet 2nd Lieutenant	R. J. Travers
Co. F	Cadet Captain	D. J. MacIntire
	Cadet 1st Lieutenant	H. G. Lackee
	Cadet 2nd Lieutenant	F. T. Zabe
	Cadet 2nd Lieutenant	R. T. Wilson

Prizes Awarded

PRIZES AWARDED

Kidder Scholarship, Roger Locke Gowell, Poland.

Western Alumni Scholarship, Lester Walton Hathaway, Bryant Pond.

New York Alumni Association Scholarship, Earle Leslie Emery, Salisbury Cove.

Pittsburgh Alumni Association Scholarship, Francis O'Rourke, Saco.

Junior Exhibition Prizes, Marie Frederica Foster, Sorrento, and Earl Stephen Merrill, Orono.

Sophomore Declamation Prizes, Leola Bowie Chaplin, Cornish, and Noel Davis Godfrey, Lubec.

Father Harrington Prize, Muriel Colbath, Hampden.

Holt Prizes, Harold Perry Bailey, Dexter, David Seth Baker, Caratunk, and William Lucas Wark, Cumberland Mills.

Walter Balentine Prize, Llewellyn Morse Dorsey, Augusta.

Franklin Danforth Prize, Raymond Henry Fogler, West Rockport.

Kennebec County Prize, Harold Henry Beverage, North Haven, Harold Eugene Hodgkins, Waterville, and Park Elliott, Foxcroft.

King Prize, Ansel Alva Packard, Belfast.

Pharmacy Prize, Morton Leonard Bullard, Dexter.

Wingard Cup, Norman Sylvester Donahue, Luthersburg, Pa.

Commencement

COMMENCEMENT

The Commencement exercises of 1915 were as follows:

SATURDAY, JUNE 5

- 5.00 P. M. Annual Meeting of Phi Kappa Phi, the Library
- 6.00 P. M. Annual Banquet of Phi Kappa Phi, Hannibal Hamlin Hall
- 8.30 P. M. King Oratorical Prize Contest, the Chapel

SUNDAY, JUNE 6

- 10.30 A. M. Baccalaureate Address, by Elmer Burritt Bryan, LL. D.,
President of Colgate University, the Chapel
- 4.30 P. M. Vesper Service, conducted by Rev. Ashley Auburn Smith,
B. D., of Bangor, the Chapel

MONDAY, JUNE 7

- 10.00 A. M. Competitive Company Drill and Review of the Cadet Battalion, Alumni Field
- 2.00 P. M. Class Day Exercises, the Chapel
- 2.30 P. M. Annual Meeting of the Alumni Advisory Council, the Library
- 8.00 P. M. "The Amazons," by the Maine Masque, the Gymnasium

TUESDAY, JUNE 8

- 9.00 A. M. Concert by the Musical Organizations, the Chapel
- 10.00 A. M. "As You Like It," by Women Students
- 10.00 A. M. Annual Meeting of the College of Law Alumni Association, Stewart Hall
- 4.30 to 6.30 P. M. Alumni Luncheon, the Gymnasium

Commencement

- 4.30 to 6.30 P. M. Alumnae Luncheon, the Chapel
6.30 P. M. Annual Meeting of the General Alumni Association, the Chapel
7.30 to 9.30 P. M. President's Reception, the Library

WEDNESDAY, JUNE 9

- 9.30 A. M. Commencement Exercises, the Campus; Address by Hon Samuel Walker McCall, LL. D., of Winchester, Mass.
12.00 M. Commencement Dinner, the Gymnasium
8.00 P. M. Commencement Ball, the Gymnasium

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

BACHELOR OF SCIENCE

Wilbur Cole Aageson (Dairy Husbandry)	Thomaston
Douglas Marsh Beale (Horticulture)	Orono
George Hench Bernheisel (Animal Husbandry) ...	New Bloomfield, Pa.
Joseph Henry Bodwell (Animal Husbandry)	Methuen, Mass.
Earle Maurice Brockway (Forestry)	Dexter
Norman Sylvester Donahue (Agronomy)	Luthersburg, Pa.
Chauncey Hazen Douglas (Forestry)	Peabody, Mass.
Ralph Barrows Easson (Poultry Husbandry)	South Paris
Harry Willard Fogg, (Forestry)	Hull's Cove
Raymond Henry Fogler (Biology)	West Rockport
Henry Winslow Fowler (Forestry)	Berlin, N. H.
Emma Gerhardtts (Home Economics)	Westbrook
Leslie Atheson Hamel (Agronomy)	Portland
William Barlow Hill (Forestry)	Gorham
Clement Ames Lyon (Agronomy)	East Bridgewater, Mass.
Chester Harold Norton (Forestry)	Chelsea, Mass.
Joseph Batchelder Parker (Dairy Husbandry)	Bangor
Montford Elmer Patten (Forestry)	Carmel
Earl Francis Perry (Biology)	Bangor
Willis Thurston Pettey (Poultry Husbandry)	South Paris
John Harvey Philbrick (Dairy Husbandry)	Corinna
William Wason Redman (Agronomy))	Dedham, Mass.
Abram Ira Schwey (Horticulture)	Portland
Philip Harris Walters (Animal Husbandry)	Readfield
Paul Alanson Warren (Biology)	Dover
Oscar Milton Wilbur (Horticulture)	Pembroke
Rachel Helene Winship (Home Economics)	Auburn

Degrees Conferred

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

James Abraham Adams (Mathematics)	Orono
Miretta Lydia Bickford (Latin)	Orono
Rosemary Agnes Brennan (German)	Bangor
Neva Browning (English)	Orono
Ava Harriet Chadbourne (Education)	Mattawamkeag
Robert Pinkham Clark (Economics)	Lincoln
Stephen Caldwell Clement (English)	Belfast
Muriel Colbath (English)	Hampden
Olive Erdine Coombs (Latin)	North Isleboro
Stephen Paul Danforth (English)	Foxcroft
Lucretia Almira Davis (Romance Languages)	Old Town
Raymond Donald Douglass (Mathematics)	Gorham
Joseph Edward Doyle (Biology)	Danvers, Mass.
Russell Sweetser Ferguson (Biology)	New York, N. Y.
Maurice Arthur Fletcher (German)	Wilton
Mildred Webster Flower (Latin)	East Kingston, N. H.
Madison Leavitt Gilman (Economics)	Woodfords
Earl Corson Goodwin (Economics)	Oakland
Ethel Mae Grey (Latin)	South Penobscot
James Lucius Gulliver (Economics)	Auburn
Elizabeth Fitzgerald Hanly (English)	Thomaston
Ernest Freeman Hanson (Economics)	Gorham
Herbert Wilder Hayford (German)	Dover
Mary Elizabeth Burns Hines (Latin)	Middletown, Conn.
Margaret Lillis Holyoke (Biology)	Brewer
Mollie Chase Hutchins (German)	Fryeburg
William Hope Martin (Biology)	Carlisle, Pa.
Gladys Helen Merrill (Romance Languages)	Orono
Lester Howe Morrell (Economics)	Lewiston
David Weaver Parks (Physics)	Fort Fairfield
Lloyd Francis Pinkham (Economics)	Lewiston
Frances Gertrude Smart (Romance Languages)	La Grange
Lewis Brewster Tolman (Economics)	Bangor
Gladys Treat (German)	Winterport
Ross Harold Varney (Economics)	Haverhill, Mass.
James Clifford Walker (Physics)	Portland

Degrees Conferred

BACHELOR OF PEDAGOGY

Elmer Harrison WebberLivermore Falls

COLLEGE OF LAW

BACHELOR OF LAWS

George Robert AshworthWaldoboro
Jay Hobart FrizzellGroveton, N. H.
Clark Bradley FrostGorham, N. H.
Ellen Morancy Mary HoarBarre, Vt.
Walter Ellwyn Mathews [A. B., Bates, 1911]Saint Albans
Howard Clifton MoodyNorth Monmouth
Cornelius Joseph O'LearyBangor
Frank Adams Tirrell, Jr.Quincy, Mass.
Merrill Edson TorreyEasthampton, Mass.
Ernest Linwood WeaverAshland
Herbert John WelchPortland
Clarence Alden WhitneyPortland
Earl Lytton Wing [A. B., Bowdoin, 1910]Kingfield
Raymond Travena WoolsonLisbon, N. H.

COLLEGE OF TECHNOLOGY

BACHELOR OF SCIENCE

Charles Stanley Allen (Civil Engineering)Augusta
Harold Perry Bailey (Chemistry)Dexter
David Seth Baker (Civil Engineering)Caratunk
Merton Ford Banks (Civil Engineering)Biddeford
Harry Lewis Bayer (Civil Engineering)Bangor
Harold Henry Beverage (Electrical Engineering)North Haven
Lawrence Allen Blaisdell (Electrical Engineering)Lynn, Mass.
William Edward Bowler (Electrical Engineering)Spencer, Mass.
Alfred Orman Bragg (Chemical Engineering)Portland
James Joseph Brennan (Chemical Engineering)Bangor
Winthrop Blakely Brown (Chemistry)Portland
William Harold Buck (Civil Engineering)Ansonia, Conn.
Fred Elton Chapman (Electrical Engineering)Lake Hermon
Ernest Alfred Clifford (Civil Engineering)Brunswick

Degrees Conferred

Everett Bickford Coffin (Civil Engineering)	Brunswick
Edward Warren Connors (Civil Engineering)	Old Town
Harold Cooper (Mechanical Engineering)	Auburn
Albert Leo Coyne (Civil Engineering)	Worcester, Mass.
James Stuart Crandall (Civil Engineering)	Malden, Mass.
Maynard Joshua Creighton (Chemical Engineering)	Thomaston
Russell Milton Crispin (Civil Engineering)	West Somerville, Mass.
Leon John Croteau (Civil Engineering)	Holbrook, Mass.
Walter James Dolan (Chemistry)	Worcester, Mass.
Edward Albert Dore (Chemical Engineering)	Bangor
Park Elliott (Electrical Engineering)	Foxcroft
Norman Eudell Emmons (Electrical Engineering)	Chester, Conn.
Harold Mahlon Fish (Civil Engineering)	Farmington
Chester Hamlin Goldsmith (Chemistry)	Beverly, Mass.
Alleyne Maurice Goodwin (Electrical Engineering)	Saco
Forest Chandler Gordon (Chemical Engineering)	Auburn
Preston Martin Hall (Chemical Engineering)	Taunton, Mass.
Laurence Herbert Haskell (Civil Engineering)	Lynn, Mass.
Frederic Boynton Hatch (Civil Engineering)	Pemaquid Harbor
Harold Eugene Hodgkins (Electrical Engineering)	Waterville
Herbert Charles Hodgkins (Electrical Engineering)	Waterville
Albert Fletcher Hutchinson (Chemistry)	North Dexter
Everett Palmer Ingalls (Civil Engineering)	Bridgton
Harold Libby Jones (Civil Engineering)	Corinna
Roland Gerry Kimball (Pharmacy)	Norway
Harold Walter Leavitt (Civil Engineering)	Monmouth
Ray Harrison Lindgren (Civil Engineering)	Belfast
Harris Gates Luther (Mechanical Engineering)	Hadlyme, Conn.
Carl Magnus (Chemical Engineering)	Biddeford
Maurice Roy McKenney (Electrical Engineering)	Stillwater
William Henshaw Mellen (Mechanical Engineering)	Athol, Mass.
James Edward Mullaney (Civil Engineering)	Somerville, Mass.
Malcolm Hayford Oak (Chemistry)	Caribou
Philip Edwin Philbrook (Mechanical Engineering)	Woodfords
Walker Merriam Philbrook (Electrical Engineering) ..	Rockport
Raymond Trussell Pierce (Electrical Engineering)	Bangor
Harry Algernon Randall (Electrical Engineering)	South Portland
James Stuart Randall (Civil Engineering)	Whitman, Mass.
Walter Henry Rogers (Chemistry)	Topsham
Leon George Sawyer (Electrical Engineering)	Bridgton

Degrees Conferred

Merle Branard Shaw (Chemical Engineering)	Orono
Harvey Prescott Sleeper (Electrical Engineering)	Bangor
Paul Frederick Slocum (Civil Engineering)	New York, N. Y.
Loren Prescott Stewart (Civil Engineering)	Thorndike
Robert Freeman Thurrell (Electrical Engineering)	Portland
Harry Alton Titcomb (Mechanical Engineering)	South Paris
William Lucas Wark (Mechanical Engineering)	Cumberland Mills
Jedediah Earle Weeks (Civil Engineering)	Wells
Gerald Cushman Welch (Civil Engineering)	Oakland
Harold Chandler White (Chemical Engineering)	Bangor
Thomas Boardman Whitney (Civil Engineering)	Caribou
Harry Duncan Williams (Civil Engineering)	Readfield
Edmund Nugent Woodsum (Mechanical Engineering)	Stillwater

PHARMACEUTICAL CHEMIST

Morton Leonard Bullard	Dexter
John Wynne Burke	Randolph
John Raymond de la Cruz	Colombia, S. A.
Allan Philputt Gillis	Lubec
Oscar Johnson	Monson
Daniel Edwin Lawton	Southwest Harbor
Arthur Malloch	Lubec
Percy Daniel Rowe	Island Falls

ADVANCED DEGREES

MASTER OF ARTS

Marion Stephanie Buzzell (Education) [B. A., 1914]	Old Town
--	----------

MASTER OF SCIENCE

John Whittemore Gowen (Biology) [B. S., 1914]	Arlington, Mass.
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CIVIL ENGINEER

Bertram Eugene Ames [B. S., 1905]	Lynn, Mass.
Herbert Putman Bruce [B. S., 1910]	Nahant, Mass.
Ashton Halsted Hart [B. S., 1911]	Brooklyn, N. Y.
Mellen Cleaveland Wiley [B. S., 1903]	Chicago, Ill.

MECHANICAL ENGINEER

Raymond Thurber Cole [B. S., 1910]	Worcester, Mass.
--	------------------

Degrees Conferred

CERTIFICATES

IN HOME ECONOMICS

Frances Edith Dugan	Bangor
Frances Myrtle Jones	Bangor
Alice Marguerite Lewis	Gardiner
Eunice Hale Niles	Hallowell
Hazelwood Scrimgeour	Lewiston

IN THE SCHOOL COURSE IN AGRICULTURE

[Awarded April 30]

Merle Raymond Adams	Canton Point
David Crowell	Dorchester, Mass.
Philip Murray Dearborn	Cape Elizabeth
Richard Chandler Eaton	Exeter
Theodore Orson Fisk	Worcester, Mass.
Harry Sawyer Hawkes	Cumberland Center
Rupert Stacy Norton	Kezar Falls
Ralph Packard	Norridgewock
Frank Merrill Walker	Saco
Mary Ellen Willard	Llanerch, Pa.

DEGREES OUT OF COURSE

BACHELOR OF SCIENCE

Ralph Victor Fifield (Civil Engineering)	Huntley, Mont.
[as of the Class of 1905]	

BACHELOR OF MECHANICAL ENGINEERING

Edwin Reuel Merrill	Dayton, Ohio
[as of the Class of 1891]	

CATALOG OF STUDENTS

Major subjects are indicated as follows: Ag. Agronomy, An. Animal Industry, Bc. Biological Chemistry, Bl. Biology, Ch. Chemistry, Ch. Eng. Chemical Engineering, Ce. Civil Engineering, Dh. Dairy Husbandry, Es. Economics, Ed. Education, Ee. Electrical Engineering, Eh. English, Fy. Forestry, Fr. French, Gm. German, Gk. Greek, Hy. History, He. Home Economics, Ht. Horticulture, Lt. Latin, Ms. Mathematics, Me. Mechanical Engineering, Ph. Poultry Husbandry, Pm. Pharmacy, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Si. Spanish and Italian.

GRADUATE STUDENTS

Bartlett, Emily Mary, B. A., Bl.	<i>Orono</i>	College Street
University of Maine, 1912		
Beaupré, Estelle Inez, B. A., Gm.	<i>Bangor</i>	
University of Maine, 1914		
Bickford, Miretta Lydia, B. A., Hy.	<i>Orono</i>	
University of Maine, 1915		
Carleton, Edward Frazier, B. A.,	<i>South Groveland, Mass.</i>	
Fr. University of Maine, 1912		
Clark, Frank Sheldon, B. S., Ee.	<i>Orono</i>	Main Street
Norwich University, 1909		
Clarke, George Clarence, B. A., Ms.	<i>Portland</i>	
University of Maine, 1913		
Coffin, Celia May, B. A., Eh.	<i>Bangor</i>	
University of Maine, 1912		
Conley, Albert Davis, B. S., Ch. E.,	<i>Orono</i>	North Main Street
Ch. University of Maine, 1911, 1914		
Cushman, William Parsons, B. S.,	<i>Northeast Harbor</i>	
Ps. University of Maine, 1911		

Catalog of Students

Davis, Ellen, B. A., Eh. Smith College, 1915	<i>Old Town</i>	Old Town
Davis, Lucretia Almira, B. A., Fr. University of Maine, 1915	<i>Old Town</i>	Old Town
Donegan, James John, Ph. B., Ce. Yale University, 1909	<i>Orono</i>	Mill Street
Douglass, Raymond Donald, B. A., Ms. University of Maine, 1915	<i>Gorham</i>	Δ T Δ House
Durgin, Albert Guy, B. S., M. S., Ch. University of Maine, 1908, 1909	<i>Orono</i>	Middle Street
Estabrooke, Carl Bertrand, B. A., Hy. University of Maine, 1912	<i>Orono</i>	College Street
Faulkner, Caro Beverage, B. A., Gm. Colby College, 1907	<i>Greene</i>	Bennoch Street
Floyd, Raymond, B. A., Gm. University of Maine, 1913	<i>Brewer</i>	University Inn
French, Norman Richards, B. A., Ps. University of Maine, 1914	<i>Orono</i>	205 H. H. Hall
Fuller, William David, Ph. B., Ed. University of Wisconsin, 1910	<i>Old Town</i>	Old Town
Goldsmith, Chester Hamlin, B. S., Ch. University of Maine, 1915	<i>Orono</i>	College Street
Grahame, Ruth Armstrong, B. A., Hy. Park College, Mo., 1914	<i>Orono</i>	North Main Street
Hoyt, Amos Courrier, B. A., Es. Ohio Wesleyan University, 1912	<i>North Anson</i>	
Kelley, Margaret June, B. A., Gm. University of Maine, 1912	<i>Bangor</i>	52 Essex Street, Bangor
Lane, Frederick William, B. S., Ch. Mass. Institute of Technology, 1914	<i>Orono</i>	Park Street
Lane, Willis Carl, B. Sc., Bl. Ohio State University, 1915	<i>Orono</i>	408 Oak Hall
Lucas, Warren Stanhope, B. A., Ms. University of Maine, 1914	<i>Thomaston</i>	
Lurie, Alexander, B. S., Bl. Cornell University, 1914	<i>Orono</i>	23 Mill Street
Merrill, Ann Margaret, B. A., Gm. University of Maine, 1908	<i>Washington, D. C.</i>	
Monohon, Paul Wheeler, B. S., Ag. University of Maine, 1914	<i>Orono</i>	108 H. H. Hall

Catalog of Students

Patterson, Sidney Winfield, B. S., Bl. University of Maine, 1914	<i>Orono</i>	301 H. H. Hall
Paul, Seneca Arthur, LL. B., Law	<i>East Corinth</i>	
		29 George Street, Bangor
Boston Y. M. C. A. Law School, 1915		
Phinney, Chester Squire, B. A., Gm. University of Maine, 1915	<i>Duxbury, Mass.</i>	
Philbrick, John Harvey, B. S., Bl.	<i>Corinna</i>	Campus
University of Maine, 1915		
Rao, Ramanathapur Sitarama, B.	<i>Bangalore, India</i>	16 Bennoch Street
Sc., Ch. University of Bombay, India, 1913		
Redman, William Wason, B. S., Pp.	<i>Dedham, Mass.</i>	Σ X House
University of Maine, 1915		
Rogers, Walter Henry, B. S., Ch.	<i>Orono</i>	Φ H K House
University of Maine, 1915		
Sawyer, Edward Eugene, B. A., Ch. University of Maine, 1912	<i>Old Town</i>	
St. Marie, Adrian Archibald	<i>Orono</i>	Park Street
Achilles, B. S., Ch.		
University of Minnesota, 1914		
Sherwood, Neil Carpenter, B. S., Bl. University of Maine, 1914	<i>Orono</i>	Dairy Building
Stanley, Winthrop Hamor, B. A., Ch. University of Maine, 1910	<i>Westbrook</i>	
Tobey, Elmer Robert, B. S., Ch.	<i>Orono</i>	Pond Street
University of Maine, 1911		
Webber, Elmer Harrison, B. Pd., Ed. University of Maine, 1915	<i>Livermore Falls</i>	
Whitmore, Albert Amos, B. S., Hy. University of Maine, 1906	<i>Orono</i>	University Inn
Wilbur, Oscar Milton, B. S., Bl.	<i>Pembroke</i>	Campus
University of Maine, 1915		
Woods, Roscoe, B. A., Ms.	<i>Orono</i>	28 Bennoch Street
Georgetown College, 1914		
Verder, Daniel Hugh, B. A., M.	<i>Mattapoisett, Mass.</i>	
A., Eh.		
Trinity College, 1899		

Catalog of Students

SENIORS

Ashton, Harold Dudley, Ce.	<i>Springfield, Mass.</i>	K Σ House
Atwater, Donald Vince, Bl.	<i>Fort Fairfield</i>	Σ X House
Barrett, Basil Edward, Es.	<i>Bluchill</i>	Σ X House
Barrows, Lewis Orin, Pm.	<i>Newport</i>	B Θ Π House
Barry, James Edward, Es.	<i>Bangor 168 Grove Street, Bangor</i>	
Bartlett, Robert Whitney, Ch.	<i>Westfield, Mass.</i>	Δ X A House
Bell, Roger Warren, Ce.	<i>Arlington, Mass.</i>	K Σ House
Blackman, Charles Leon, An.	<i>Peaks Island</i>	Park Street
Blanchard, Ensor Harding, Ce.	<i>Buenos Aires, Argentina, S. A.</i>	Forest Avenue
Blanchard, Robert Germain, Ce.	<i>Cumberland Center</i>	Δ X A House
Blood, Lewis Henry, Ch.	<i>Foxcroft</i>	Σ A E House
Bonney, Timothy Doten, Ms.	<i>Mexico</i>	Θ X House
Boothby, Horace Everett, Jr., Ht.	<i>Methuen, Mass.</i>	Σ A E House
Bower, Arthur John, An.	<i>Methuen, Mass.</i>	Σ A E House
Bradbury, Burke, Ee.	<i>Old Town</i>	Φ Γ Δ House
Brown, Brooks, Dh.	<i>Dover</i>	Δ T Δ House
Brown, Walter True, Me.	<i>West Bath</i>	109 H. H. Hall
Buckley, Forest LeRoy, Ce.	<i>Leeds</i>	101 H. H. Hall
Burkett, Franz Upham, Law	<i>Union 62 Court Street, Bangor</i>	
A. B., Bowdoin College, 1911		
Butters, Arthur Edwin, Es.	<i>Old Town</i>	Old Town
Causland, Kenneth Martin, Ee.	<i>Freeport</i>	K Σ House
Coffin, Harold Wilhelm, Ee.	<i>Portland</i>	Θ X House
Colbath, Orman Schuyler, Bl.	<i>Hampden</i>	Δ T Δ House
Colvin, Zella Elizabeth, Ms.	<i>Williamsburg, Ind.</i>	Mt. Vernon House
Condon, Guy Berwyn, Es.	<i>South Penobscot</i>	Σ X House
Cookson, Ernest Loren, Ped.	<i>Albion</i>	Park Street
Coombs, LeRoy, Eh.	<i>Portland</i>	Σ A E House
Crahmer, Harris Sampson, Law	<i>Bangor 204 4th Street, Bangor</i>	
Crimmin, Erlon Victor, Ee.	<i>Winterport</i>	101 Oak Hall
Crommett, Earle Erweed, Law	<i>Ridlonville 38 Winter Street, Bangor</i>	
Currier, Doris, Gm.	<i>Brewer</i>	Mt. Vernon House
Currier, Karl Moody, Ch. Eng.	<i>Brewer</i>	Φ K Σ House
Curtis, Fred Holmes, Gm.	<i>Addison</i>	A T Ω House
Damren, Fred Llewellyn, Bl.	<i>Auburn</i>	Φ H K House
DeBeck, Mary Muriel, Lt.	<i>Franklin</i>	Balentine Hall

Catalog of Students

DeWitt, Carroll Melbourne, Es.	<i>Brewer</i>	Φ K Σ House
Dodge, John Maynard, Me.	<i>Boothbay</i>	Φ H K House
Darrah, Floyd Mason, Law	<i>Portland</i>	42 Holland Street, Bangor
Dole, Charles Edmund, Es.	<i>Bangor</i>	B Θ Π House
Dorsey, Llewellyn Morse, Dh.	<i>Augusta</i>	Σ A E House
Driscoll, Michael Columbus, Fr.	<i>North Abington, Mass.</i>	Campus
Dubee, John Raymond, Law	<i>Haverhill, Mass.</i>	
		176 Court Street, Bangor
Eaton, George Franklin, Law	<i>Bangor</i>	103 Fourth Street, Bangor
Eddy, Emery Davis, Bl.	<i>Bangor</i>	Φ Γ Δ House
Edes, Omar Kelsey, Es.	<i>Dexter</i>	Φ Γ Δ House
Edminster, Winfred Herbert, Bl.	<i>Dixmont</i>	412 H. H. Hall
Elliott, James Carroll, Dh.	<i>North Rumford</i>	301 H. H. Hall
Emerson, Walter Davis, Me.	<i>Orono</i>	Park Street
Fairchild, Thomas Everett, Ph.	<i>Livermore Falls</i>	Φ K Σ House
Fannon, Ralph William, Ch. Eng.	<i>Appleton, Wis.</i>	Φ Γ Δ House
Faulkner, William Thomas, Es.	<i>Greene</i>	28 Bennoch Street
Folsom, Charles Herbert, Ce.	<i>Dexter</i>	308 H. H. Hall
Forsyth, Nathaniel Frederick, Es.	<i>Orrington</i>	Orrington
Foster, Hoyt Davis, Ped.	<i>Deer Isle</i>	Park Street
Foster, Marie Frederica, Ms.	<i>Bar Harbor</i>	Balentine Hall
Fraser, Elwood Stuart, Dh.	<i>Peaks Island</i>	Park Street
Frawley, Isabel Frances, Rm.	<i>Bangor</i>	Balentine Hall
Garakian, John Abraham, Law	<i>Bangor</i>	28 Second Street, Bangor
B. A., Robert College, 1909		
Glover, John White, Me.	<i>Rockland</i>	Σ X House
Gowell, Roger Locke, Dh.	<i>Poland</i>	201 Oak Hall
Grant, Philip Burr, Lt.	<i>Unity</i>	411 H. H. Hall
Gray, Frank William, An.	<i>Jacksonville</i>	Δ T Δ House
Gray, Granville Chase, Law	<i>Brewer</i>	26 Wilson Street, Brewer
Greenleaf, Florence Evelyn, He.	<i>Auburn</i>	Mt. Vernon House
Ham, Everett Goss, Ch. Eng.	<i>Foxcroft</i>	Σ X House
Hamblen, Archelaus Lewis, Ht.	<i>Gorham</i>	Δ T Δ House
Hamilton, Guy Bradford, Dh.	<i>Portland</i>	Δ X A House
Harvey, Joseph Edmond, Law	<i>Saco</i>	60 Court Street, Bangor
Hunt, Lawrence Milliken, Ch. Eng.	<i>Old Town</i>	Φ Γ Δ House
Jones, Marguerite, He.	<i>Wa'doboro</i>	North Hall
Jordan, Maynard Fred, Ms.	<i>Islesford</i>	103 H. H. Hall
Kirk, George Edwin, Es.	<i>Bar Harbor</i>	Pine Street
Kruger, Lewis Herman, An.	<i>Portland</i>	412 H. H. Hall

Catalog of Students

Kritter, Julius Henry, Ce.	<i>Bradford, Mass.</i>	A T Ω House
Lackee, Hobart Gould, Me.	<i>Woodfords</i>	Δ T Δ House
Lane, Charles Kent, Ch. Eng.	<i>Rockland, Mass.</i>	K Σ House
Lanpher, Stacy Clifford, Law	<i>Foxcroft</i>	10 Chester Place, Bangor
Lawry, Otis Carroll, Ch.	<i>Fairfield</i>	B Θ II House
Leacock, John Thomas, Es.	<i>North Andover, Mass.</i>	Δ T Δ House
Legal, Chapin, Ht.	<i>Calais</i>	Grove Street
Lewis, Benjamin West, Ee.	<i>Boothbay Harbor</i>	B Θ II House
Libby, Clarence Earl, Ch. Eng.	<i>Albion</i>	308 H. H. Hall
Libby, Herschel Scott, Ped.	<i>Berry Mills</i>	Myrtle Street
Loring, Fred Perley, Ag.	<i>West Poownal</i>	Σ A E House
Lovely, Harry Richard, Fy.	<i>Gardiner</i>	Φ Γ Δ House
Macdonald, Irving Clifford, Gm.	<i>Portland</i>	Φ H K House
MacIntire, Donald Josiah, Dh.	<i>Biddeford</i>	Σ A E House
McParland, Bernard Joseph, Law	<i>Bangor</i>	16 Sanford Street, Bangor
Mangan, Thomas Gerald, Ee.	<i>Pittsfield, Mass.</i>	101 H. H. Hall
Mansfield, Everett Keith, Ch. Eng.	<i>Fryeburg</i>	Θ X House
Mason, Walter Lee, Ps.	<i>Orono</i>	Mill Street
Mathews, Norman Lyle, Ag.	<i>Waterville</i>	Θ X House
Mayers, Howard Winfield, Ce.	<i>Dresden</i>	Δ T Δ House
Merrill, Earl Stephen, Bl.	<i>Orono</i>	Campus
Merrill, Philip Knight, Es.	<i>Portland</i>	Δ T Δ House
Moody, Charles Leo, Ht.	<i>North Monmouth</i>	Campus
Moore, Ralph Lee, Ce.	<i>Hallowell</i>	Σ A E House
Moore, Robert McGregor, Me.	<i>Biddeford</i>	Φ K Σ House
Moren, Miller Bernard, Law	<i>Lowville, N. Y.</i>	64 Sanford St., Bangor
Morris, Lester George, Dh.	<i>Bingham</i>	A T Ω House
Morrison, Mildred Cora, Fr.	<i>Bar Harbor</i>	Balentine Hall
Mulloney, Lawrence Edmund, Me.	<i>Portland</i>	A T Ω House
Nickerson, Arno Wilbur, Ch. Eng.	<i>Brewer</i>	Θ X House
Nugent, William Robert, Ce.	<i>Portland</i>	101 H. H. Hall
O'Neil, Harry Dennis, Eh.	<i>Bangor</i>	Σ A E House
O'Rourke, Francis, Ch. Eng.	<i>Saco</i>	A T Ω House
Packard, Ansel Alva, Ee.	<i>Belfast</i>	Δ X A House
Packard, Marlborough, Ce.	<i>Sebec Lake</i>	103 H. H. Hall
Palmer, Guy Casley, An.	<i>Patten</i>	K Σ House
Park, Minnie May, He.	<i>Orono</i>	Pine Street
Peabody, Myron Columbus, An.	<i>Exeter</i>	Σ X House

Catalog of Students

Peterson, Harry Leland, Law	<i>Danielson, Conn.</i>	
	101 Sanford Street, Bangor	
Phelps, Ferdinand Zanoni, Ch.	<i>Foxboro, Mass.</i>	Σ X House
Philbrook, Lawrence Eugene, An.	<i>Shelburne, N. H.</i>	B Θ Π House
Plummer, Marian Elizabeth, He.	<i>Old Town</i>	Mt. Vernon House
Potter, Elmer Deming, Eh.	<i>Topsham</i>	Θ X House
Prentice, William Henry, Me.	<i>Round Pond</i>	302 Oak Hall
Purington, Clinton Everett, Es.	<i>Portland</i>	K Σ House
Quine, James Patrick, Law	<i>Bangor</i>	184 Forest Avenue, Bangor
Reed, Harold LeRoy, Law	<i>Northeast Harbor</i>	
	60 Court Street, Bangor	
Rendall, Raymond Eaton, Fy.	<i>Melrose, Mass.</i>	Θ X House
Rich, William Raymond, Ch.	<i>Gorham</i>	Δ T Δ House
Robie, Frederick, Ht.	<i>Gorham</i>	K Σ House
Robinson, Madeline Frances, Fr.	<i>Bangor</i>	465 Main Street, Bangor
Rogers, William Nathaniel, Law	<i>Bangor</i>	151 West Broadway, Bangor
Rollins, Harry Elwood, Ed.	<i>Bangor</i>	Φ K Σ House
Rudman, Samuel, Ce.	<i>Bangor</i>	159 Hancock Street, Bangor
Ruffner, Charles William, Dh.	<i>Arcadia, Pa.</i>	K Σ House
Russell, Sibyl Lois, He.	<i>Orono</i>	88 Main Street
Sanborn, Oscar Harold, An.	<i>Weld</i>	Campus
Sawyer, Grace Ruth, Fr.	<i>Old Town</i>	Old Town
Shaw, Earle Eaton, Fy.	<i>Orono</i>	College Street
Sherman, Albion Franklin, Es.	<i>Bar Harbor</i>	K Σ House
Silva, Richard Leslie, Es.	<i>Provincetown, Mass.</i>	Campus
Singleton, Sarah, Law	<i>Bangor</i>	393 State Street, Bangor
Skillin, Clifford Augustus, Me.	<i>South Portland</i>	Θ X House
Small, Norman Clifford, Ce.	<i>Farmington</i>	Φ K Σ House
Smith, Allen G., Me.	<i>Bluchill</i>	402 H. H. Hall
Somes, Raymond Percival, Es.	<i>Southwest Harbor</i>	Φ K Σ House
Stoddard, Winfred Eugene, Ed.	<i>Deer Isle</i>	Campus
Stone, Harry Edward, Ee.	<i>Cornish</i>	212 Oak Hall
Tarr, Omar Fred, Ch. Eng.	<i>Auburn</i>	Θ X House
Taylor, Charles Sumner, Law	<i>Deer Isle</i>	103 Pine Street, Bangor
Thompson, Dorothy, Gm.	<i>Orono</i>	Main Street
Thompson, Gladys, Gm.	<i>Orono</i>	Main Street
Totman, James Emmons, Ag.	<i>Sidney</i>	Φ H K House
Towle, Horace Hamblen, Jr., Law	<i>Portland</i>	
	380 Hammond Street, Bangor	
Webber, Walter Waitstill, Ch.	<i>Lewiston</i>	B Θ Π House

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Weeks, Thomas Nathan, Law	<i>Winslow</i>	
	116 Sanford Street, Bangor	
Whittemore, James Arthur, Fy.	<i>Bangor</i>	B Θ Π House
Whittier, John Lowell, An.	<i>Biddeford</i>	Φ K Σ House
Winship, Evelyn, Eh.	<i>Livermore Falls</i>	Mt. Vernon House
Woods, Basil Gibson, Eh.	<i>Bangor</i>	R. F. D. 7, Bangor, Maine

JUNIORS

Aikins, Frederick Harlow, Dh.	<i>South Windham</i>	210 H. H. Hall
Amos, Luther Newell, Ee.	<i>Houlton</i>	Bennoch Street
Andrews, Harold Pierce, Fy.	<i>Monmouth</i>	210 H. H. Hall
Baldwin, Dudley, Law	<i>Cherryfield</i>	253 Union Street
Barnes, John Lycurgus, Me.	<i>Intervale, N. H.</i>	Θ X House
Bartlett, Burton Elliott, Ch.	<i>Orono</i>	B Θ Π House
Bauer, Ada Augusta, Eh.	<i>Pittsfield, Mass.</i>	North Hall
Bayley, Charles William, Dh.	<i>Wells</i>	409 H. H. Hall
Beckler, Warren Bigelow, Jr., Ch. Eng.	<i>Auburn</i>	301 Oak Hall
Bell, George Tolar Whitman, Es.	<i>Newtonville, Mass.</i>	North Main Street
Berger, Samuel Solomon, Ch. Eng.	<i>Lawrence, Mass.</i>	204 H. H. Hall
Bernstein, Louis Abraham, Ce.	<i>Auburn</i>	212 Oak Hall
Berry, Leroy Nahum, An.	<i>South Bridgton</i>	112 H. H. Hall
Billings, Welford Parsons, Fy.	<i>East Eddington</i>	103 H. H. Hall
Blair, Wellington Arthur, Law	<i>Waterville</i>	176 Court Street, Bangor
Blanchard, Arthur Nile, An.	<i>Cumberland Center</i>	Λ X Λ House
Brackett, Altie Franklin, Ee.	<i>Berwick</i>	Λ T Ω House
Brasseur, Ralph Baldwin, Ce.	<i>Bradford, Mass.</i>	Φ K Σ House
Brawn, Earl Robertson, Ee.	<i>So. Portland</i>	Campus
Brawn, Worthen Earle, Ch. Eng.	<i>Bath</i>	109 H. H. Hall
Fridgham, Donald Greenwood, An.	<i>Auburn</i>	301 Oak Hall
Bridgham, Wade Lawrence, Law	<i>Bridgton</i>	
	148 Kenduskeag Ave., Bangor	
Fright, Elizabeth Mason, Bl.	<i>Bangor</i>	Mt. Vernon House
Bristol, Grace Bidwell, He.	<i>West Hartford, Conn.</i>	
		Mt. Vernon House
Brown, Cecil Earle, Law	<i>Norway</i>	The Colonial, Bangor
Brown, Clifford, Ce.	<i>Portland</i>	Φ Γ Δ House
Brown, Ruth Ellen, Eh.	<i>Brewer</i>	Mt. Vernon House

Catalog of Students

Callahan, Raymond Murray, An.	<i>Sabattus</i>	Θ X House
Carter, Ray Milo, Ch.	<i>West Hawley, Mass.</i>	Spearen's Inn
Chadbourne, Paul Everett, Me.	<i>Biddeford</i>	Φ K Σ House
Chaplin, Leola Bowie, Eh.	<i>Cornish</i>	Balentine Hall
Clapp, Elwood Irvin, Ch. Eng.	<i>Brewer</i>	Brewer
Cobb, Sumner Chase, Ms.	<i>Woodfords</i>	Φ K Σ House
Collins, Parkman Abbott, Bl.	<i>Readfield Depot</i>	Θ X House
Coombs, Jessie Willett, Ped.	<i>Waldoboro</i>	Balentine Hall
Copp, Lincoln Brackett, Es.	<i>Cornish</i>	110 H. H. Hall
Corridon, John Henry, Law	<i>Portland</i>	84 Cedar Street, Bangor
Cram, Abram Cousins, Es.	<i>Limerick</i>	402 H. H. Hall
Crossland, Charles Edward, An.	<i>Lawrence, Mass.</i>	Pierce Street
Crowell, Fred Donald, Es.	<i>Bangor</i>	B Θ II House
Crowley, Wallace Edgar, Law	<i>Bangor</i>	10 Chester Place, Bangor
Currier, Harold Newcomb, Ch. Eng.	<i>Brewer</i>	Φ K Σ House
Danforth, Helen Lois, Gm.	<i>Bangor</i>	Mt. Vernon House
Dempsey, Edmund James, Ch.	<i>Mattapan, Mass.</i>	Σ X House
Dickey, Clarence Watson, Ped.	<i>Monroe</i>	Park Street
Dole, George Elmer, Bl.	<i>Haverhill, Mass.</i>	Θ X House
Dufficy, Edward Charles, Law	<i>Rumford</i>	84 Cedar Street, Bangor
Dunn, Arthur Wilfred, Ht.	<i>Yarmouthville</i>	Θ X House
Dutton, Philip Smith, Bl.	<i>Steuben</i>	A T Ω House
Ellis, Alfreda, He.	<i>Belfast</i>	North Hall
Emerson, Percy Daniel, Ce.	<i>Biddeford</i>	A T Ω House
Emery, Charles Irving, Ms.	<i>Salisbury Cove</i>	Campus
Emery, Earle Leslie, An.	<i>Salisbury Cove</i>	Grove Street
Emery, Marion, He.	<i>Limerick</i>	North Hall
Falvey, John Michael, Fr.	<i>South Berwick</i>	A T Ω House
Fickett, Ernest Leslie, Me.	<i>Brewer</i>	Θ X House
Fides, Avery Meader, An.	<i>Orr's Island</i>	Φ H K House
Fletcher, Robert Kemble, Bl.	<i>Orono</i>	North Main Street
Ford, Perley Harvey, Law	<i>Mechanic Falls</i>	17 Fourth Street Bangor
Fox, George Edward, Ch. Eng.	<i>Glen's Falls, N. Y.</i>	A T Ω House
Fraser, Ralph Ervin, Me.	<i>Presque Isle</i>	Φ H K House
Freese, Langdon Jackson, Ee.	<i>Bangor</i>	K Σ House
French, Frank Alexander, Es.	<i>Wappinger's Falls, N. Y.</i>	Θ X House

Catalog of Students

Gerry, Laurel Osgood, Gm.	<i>Brownville</i>	A T Ω House
Gilman, Madison Leavitt, Law	<i>Augusta</i>	
	300 Hammond Street, Bangor	
Gilpatrick, Verner Elisha, Es.	<i>Orono</i>	Bennoch Street
Godfrey, Noel Davis, Es.	<i>South Lubec</i>	Park Street
Gonyer, Frances Louise, Fr.	<i>Orono</i>	2 Bennoch Street
Gorham, William Joseph, Es.	<i>Wilkes Barre, Pa.</i>	K Σ House
Grant, Benjamin Elwell, Es.	<i>Cumberland Mills</i>	Σ X House
Green, Daniel Emerson, An.	<i>Brewer</i>	112 H. H. Hall
Greenwood, Russell Sanford, An.	<i>Presque Isle</i>	Stillwater
Gribben, Benjamin Herbert, Es.	<i>Portland</i>	Campus
Guiou, Elty Chester, Ce.	<i>Orono</i>	Main Street
Hanly, Edward Kavanaugh, Fy.	<i>Thomaston</i>	University Inn
Hansen, George Edward, Fy.	<i>Worcester, Mass.</i>	412 H. H. Hall
Harding, Raymond Hawthorne, Ch. Eng.	<i>Kennebunk</i>	Σ A E House
Harmon, Erald, Law	<i>Westbrook</i>	176 Court Street, Bangor
Harmon, Frank Lorenzo, Ee.	<i>Corinna</i>	Φ H K House
Harrison, Mary Violetta, Gm.	<i>Freeport</i>	College Street
Hartwell, Walter Traver, Dh.	<i>Upper Troy, N. Y.</i>	Main Street
Haskell, Herbert Vaughn, Law	<i>Lincoln</i>	103 Pine Street, Bangor
Haskell, Weston Bradford, Dh.	<i>Auburn</i>	B Θ Π House
Hayden, Alfred Dorr, Ee.	<i>Key West, Fla.</i>	Λ X A House
Herrick, Carleton Sewall, Es.	<i>South Brewer</i>	K Σ House
Higgins, Dorrice Mae, Fr.	<i>Brewer</i>	Mt. Vernon House
Higgins, Royal Grant, Jr., Ms.	<i>Bar Harbor</i>	Campus
Hill, Mark Langdon, Ch. Eng.	<i>Bath</i>	B Θ Π House
Hiller, Howard Bryant, An.	<i>Marian, Mass.</i>	Σ A E House
Hilton, Cecil Max, Ce.	<i>Greenville</i>	Φ K Σ House
Hogan, Louis William, Ee.	<i>Houlton</i>	Main Street
Hollis, Harold William, Law	<i>Lisbon Falls</i>	
	176 Court Street, Bangor	
Hooker, Earl Dewey, Law	<i>Springfield, Mass.</i>	
	The Colonial, Bangor	
Hopkins, Bryant Lealand, Ce.	<i>North Haven</i>	401 H. H. Hall
Howard, Flora Adelaide, He.	<i>Bangor</i>	
	82 Montgomery Street, Bangor	
Hunt, Lilian Crosby, Eh.	<i>Old Town</i>	Old Town
Hurd, Everett St. Claire, Ee.	<i>Pittsfield</i>	Φ K Σ House

Catalog of Students

Hurley, Harold William, Law	Wareham, Mass.	
	59 Cedar Street, Bangor	
Hutchinson, Daniel Clair, Ag.	Dover	Park Street
Ingraham, Edith Louise, Gm.	Bangor	78 Grant Street, Bangor
Jacobs, Maurice, Bl.	Methuen, Mass.	408 H. H. Hall
Jenkins, Howard Lawrence, An	Methuen, Mass.	Σ A E House
Johnson, Carl Strong, Ph.	Easthampton, Mass.	B Θ II House
Johnson, William Alonzo, Law	Bangor	113 Broad Street, Bangor
Jones, Frederic Paul, Ee.	Biddeford	301 H. H. Hall
Jones, Walter Converse, Es.	Portland	Campus
Keating, Frederick Augustine, Law	Upper Gloucester	
	84 Cedar Street, Bangor	
Kelleher, Michael Clarence, Jr., Law	Westerly, R. I.	
	10 Chester Place, Bangor	
Kilburn, George Washington, Ms.	Fort Fairfield	Σ X House
Kloss, Theodore Edward, Ch. Eng.	Kennebunkport	Φ Γ Δ House
Lane, Hazel Irene, He.	Lewiston	Balentine Hall
Lavorgna, Albert, Ce.	Canton	202 Oak Hall
Libby, Harry Cummings, Law	Portland	84 Cedar Street, Bangor
Libby, Philip Nason, Fy.	Gray	Σ A E House
Littlefield, Waldemar Bunker, Me.	Brewer	Φ K Σ House
Locke, John Fernando, Ch.	Mount Vernon	Σ A E House
Lougee, Frances Marie, Gm.	Winterport	North Hall
McAlister, Royce Delano, Ed.	Bucksport	Σ A E House
McAvey, Liela Joyce, Eh.	Bangor	Mt. Vernon House
McCabe, Francis Thomas, Ee.	Worcester, Mass.	Δ T Δ House
McCabe, George Curtin, Ee.	Kennebunkport	Θ X House
McCobb, Herbert Hodges, Ag.	Center Lincolnville	Λ T Ω House
McCusker, Joseph Aloysius, Bl.	Lewiston	Θ X House
McKown, Richard Edward, Es.	Southport	Σ X House
Mank, Nelson Fountain, Me.	Portland	Campus
Marble, Gerald Coker, Me.	Skowhegan	K Σ House
March, Ruth Evelyn, He.	Easton	Balentine Hall
Martini, Mary Lillian, Bl.	Orono	Bennoch Street
Mathews, Wilbur Leonard, Ee.	Berwick	A T Ω House
Maxfield, Horatio Winfred, Me.	Portland	Φ K Σ House
Melincoff, John Henry, Gm.	Bangor	56 Essex Street, Bangor
Mercier, Dorothy, Lt.	Princeton	North Hall
Merrill, Katharine Buffum, Eh.	Orono	Main Street
Miles, Adelbert Laroy, Law	Ellsworth	The Colonial, Bangor

Catalog of Students

Mo'oney, Helen Carew, Eh.	<i>Orono</i>	32 North Main Street
Morse, Mayland Herbert, Law	<i>Anson</i>	253 Union Street, Bangor
Mou'ton, Joseph Wendell, Ce.	<i>Rutland, Mass.</i>	104 Oak Hall
Moulton, Parker Nash, Bl.	<i>Bath</i>	Σ A E House
Mower, Clyde Fletcher, Me.	<i>Dexter</i>	Park Street
Mower, Ieland Monroe, Ce.	<i>Auburn</i>	202 Oak Hall
Mullen, Charles Emerson, Ch. Eng.	<i>Bangor</i>	Φ Γ Δ House
Murphy, Blanche Lauretta, Ped.	<i>Portland</i>	Balentine Hall
Murray, Mable Thurston, Hy.	<i>Boothbay Harbor</i>	Balentine Hall
Nash, William Edmund, Ce.	<i>Concord, N. H.</i>	K Σ House
Needham, Stanley Francis, Es.	<i>Old Town</i>	Old Town
Newton, Maxwell, Ch. Eng.	<i>Kent's Hill</i>	306 H. H. Hall
Nowell, Foster, Ce.	<i>Reading, Mass.</i>	Δ T Δ House
O'Donoghue, William Florence, Fy.	<i>Lowell, Mass.</i>	Δ X A House
Page, Schuyler Colfax, Ee.	<i>Caribou</i>	Φ H K House
Park, Irvin James, Ce.	<i>Orono</i>	Pine Street
Partridge, Clara Estelle, He.	<i>Pemaquid Beach</i>	Balentine Hall
Pemberton, Harold Sawyer, Ce.	<i>Groveland, Mass.</i>	Δ X A House
Pendleton, Raymond Ambrose, Ms.	<i>Brewer</i>	Φ K Σ House
Penney, Charles Clifton, An.	<i>Lewiston</i>	Θ X House
Perry, John Howard, Ch.	<i>Lincoln</i>	Φ Γ Δ House
Perry, Mildred Geneva, Rm.	<i>Orono</i>	R. F. D. 7, Bangor
Peters, Shenton Ashley, Ee.	<i>Bangor</i>	12 Carroll Street, Bangor
Peterson, Henry Andrew, Bl.	<i>Portland</i>	110 H. H. Hall
Phelps, Elizabeth Cornelia, Gm.	<i>Foxboro, Mass.</i>	Balentine Hall
Phillips, Edward Albert, Eh.	<i>Scitinscove, Pa.</i>	46 Main Street
Phillips, Stanley Gilkey, Ce.	<i>Westbrook</i>	Φ Γ Δ House
Pierce, Ralph Bartlett, Ch.	<i>Beverly, Mass.</i>	Σ X House
Pitman, Linwood True, Eh.	<i>Augusta</i>	Θ X House
Poore, Alice Mildred, Lt.	<i>Robbinston</i>	Mt. Vernon House
Post, Lawrence Leicester, Ce.	<i>Alfred</i>	112 H. H. Hall
Preble, Leslie Edward, Ch. Eng.	<i>Saco</i>	Campus
Reed, Harold Langdon, Ch.	<i>Lewiston</i>	Θ X House
Reed, Stanley Lewis, Me.	<i>Methuen, Mass.</i>	Mill Street
Remick, Edward Carleton, Ps.	<i>Springvale</i>	K Σ House
Reynolds, William Eugene, Dh.	<i>Northeast Harbor</i>	Δ T Δ House
Rice, Charles Anthony, Es.	<i>Uxbridge, Mass.</i>	K Σ House
Ricker, Ruth Merrill, He.	<i>Lisbon</i>	North Hall
Ridley, James Stevens, Ch. Eng.	<i>Brunswick</i>	Θ X House
Robie, Mary Frederica, He.	<i>Gorham</i>	Mt. Vernon House

Catalog of Students

Robinson, Carl Elmo, Dh.	<i>Bangor</i>	408 H. H. Hall
Robinson, George Campbell, Me.	<i>Westbrook</i>	Δ T Δ House
Rowley, Levi Thaddeus, Me.	<i>Hartford, Conn.</i>	Δ T Ω House
Rudman, Abraham Moses, Law	<i>Bangor</i>	26 Market Street, Bangor
Russell, Edward Sebastian, Ag.	<i>Vinalhaven</i>	Σ X House
Savage, Doris, Gm.	<i>Bangor</i>	35 Maple Street, Bangor
Sawyer, Ralph Erle, Ee.	<i>Buxton</i>	Campus
Scribner, John Leslie, Ag.	<i>Plattsburgh, N. Y.</i>	Φ H K House
Sherman, Fuller Gustavus, Ch.	<i>Randolph</i>	Δ T Δ House
Simpson, William Andrew, Ht.	<i>Marlboro, Mass.</i>	Grove Street.
Smith, Clarence Llewellyn, Me.	<i>Vinalhaven</i>	207 H. H. Hall
Smith, Marshall Odell, Ch. Eng.	<i>Yarmouth</i>	Θ X House
Stackpole, Miner Reginald, Ce.	<i>Sanford</i>	Σ A E House
Stahl, Jerome Guttman, Es.	<i>Berlin, N. H.</i>	Θ X House
Stephens, Frank Owen, Eh.	<i>Auburn</i>	B Θ Π House
Stephenson, Charles Lindsley, Ag.	<i>Kingfield</i>	102 Main Street
Stevens, Ray Randolph, An.	<i>Ashland</i>	Φ H K House
Steward, Raymond Benson, Dh.	<i>Portland</i>	304 Oak Hall
Stoddard, Stanley Waldron, Ee.	<i>Bingham</i>	Δ T Ω House
Stoehr, Rudolph, Dh.	<i>Sabattus</i>	Park Street
Stoughton, Richard, Ht.	<i>Montague, Mass.</i>	Δ X Δ House
Sturtevant, Jessie May, Eh.	<i>Milo</i>	Main Street
Swanton, Carl Bartlett, Ce.	<i>Milbridge</i>	Park Street
Sweet, George Francis, Ce.	<i>Williamstown, Mass.</i>	Φ Γ Δ House
Tabachnick, George Enoch, Ee.	<i>Portland</i>	306 H. H. Hall
Thomas, Roy Frank, An.	<i>Monson</i>	Spearen's Inn
Travers, Robert James, Ee.	<i>Bangor</i>	68 Jefferson Street, Bangor
Wadlin, George Knowlton, Ee.	<i>East Northport</i>	Δ X A House
Wahlenberg, William Gustavus, Fy.	<i>Thompsonville, Conn.</i>	207 H. H. Hall
Wardwell, Simon Murray, Ch.	<i>Auburn</i>	B Θ Π House
Waterhouse, Russell Vale, An.	<i>Kennebunk</i>	Σ A E House
Watkins, Herbert Everett, Ch.	<i>Woodfords</i>	Δ T Δ House
Waugh, Harvey Cyrus, Me.	<i>Levant</i>	Campus
Webster, William Clifford, Law	<i>Gorham</i>	217 Broadway, Bangor
Welch, Donald Stuart, Bl.	<i>Norway</i>	Φ H K House
Wentzel, Roy Alva, Ce.	<i>Livermore Falls</i>	Σ A E House
White, Horace Hudson, Law	<i>Orono</i>	Myrtle Street
Wilbur, Elwood Morton, Ce.	<i>Sorrento</i>	Δ X A House
Wilson, Rolla Tenney, Ee.	<i>Bangor</i>	27 Spruce Street, Bangor

Catalog of Students

Wood, Frances Andrews, Rm.	<i>Bar Harbor</i>	Main Street
Wood, Lawrence Blanchard, An.	<i>Kingfield</i>	410 H. H. Hall
Wood, Margaret Allen, Gm.	<i>Bar Harbor</i>	Main Street
Zabe, Ferris Joseph, Ee.	<i>Bangor</i>	7 Newbury Street, Bangor

SOPHOMORES

Abbott, Voyle Eben, Ch.	<i>Albion</i>	A T Ω House
Aikins, Walter Bowen, Ag.	<i>South Windham</i>	Campus
Allen, William Henry, Es.	<i>Brownville Junction</i>	B Θ Π House
Alley, Frank Oren, Ag.	<i>Bar Harbor</i>	Σ X House
Andrews, Harold Taylor, Me.	<i>Portland</i>	B Θ Π House
Annis, Howard LeRoy, Fy.	<i>Lincoln Center</i>	A T Ω House
Atherton, Raymon Neale, Ag.	<i>Augusta</i>	208 H. H. Hall
Bailey, George Raymond, Me.	<i>Northampton, Mass.</i>	A T Ω House
Ballantyne, Aubrey Elverton, Ch. Eng.	<i>Ware, Mass.</i>	Park Street
Barker, Malcolm Everett, Ce.	<i>Gardiner</i>	A T Ω House
Barnard, Adriel Fales, Me.	<i>Bucksport</i>	Park Street
Barrett, Willett Clark, Gm.	<i>Newport, R. I.</i>	Φ Γ Δ House
Benson, Clyde Allan, Ch. Eng.	<i>Lewiston</i>	Θ X House
Beverage, Stanley Fremont, Ch.	<i>North Haven</i>	Σ A E House
Bisbee, Frederick Carleton, Ee.	<i>Berlin, N. H.</i>	Middle Street
Blackman, Marie Prince, He.	<i>Peak Island</i>	Mt. Vernon House
Blackwood, Harold Frank, Ch. Eng.	<i>West Pembroke</i>	A X A House
Blaisdell, Harvard Wilbur, Es.	<i>North Sullivan</i>	208 H. H. Hall
Blake, Philip Warren, Bl.	<i>Marlboro, Mass.</i>	Park Street
Boothby, Wallace Johnson, Es.	<i>Bangor</i>	312 H. H. Hall
Brackett, Robert Emerson, Ps.	<i>Limington</i>	Mill Street
Bransfield, William Henry, Ee.	<i>Willimantic, Conn.</i>	Middle Street
Brasier, Everett Hovey, Ch. Eng.	<i>Guilford</i>	Φ Γ Δ House
Brittain, Thomas Waldo, Ch.	<i>Island Falls</i>	Σ A E House
Brown, Earl Robert, Bl.	<i>Bangor</i>	
	446 Hammond Street, Bangor	
Brügge, Carl Fred, Me.	<i>Gorham</i>	K Σ House
Caldwell, Harold Benjamin, Ce.	<i>Madison</i>	College Street
Calhoun, Lewis Tracy, Fy.	<i>Bridgeport, Conn.</i>	K Σ House
Cameron, George Clifton, Me.	<i>Fryeburg</i>	310 H. H. Hall
Cannon, Gertrude Frances, Gm.	<i>Brewer</i>	
	64 Chamberlain Street, Brewer	

Catalog of Students

Carlson, Thurston Daniel, Ee.	<i>Hopedale, Mass.</i>	Σ A E House
Carr, Russell Alton, Es.	<i>Sangerville</i>	Σ A E House
Carter, George Milton, Ee.	<i>Washburn</i>	411 H. H. Hall
Chadbourne, Preston Berlin, Ag.	<i>Harmony</i>	108 Oak Hall
Chalmers, Ruth Bartlett, He.	<i>Bangor</i>	Mt. Vernon House
Chang, Hung Hsiang, Es.	<i>Shanghai, China</i>	210 Oak Hall
Chapman, Russell Comstock, Ce.	<i>Hartford, Conn.</i>	Φ K Σ House
Cheney, George Henry, Ch.	<i>Randolph</i>	Φ Γ Δ House
Cobb, Herbert Gray, Ag.	<i>Woodfords</i>	Φ K Σ House
Cole, Raymond Fuller, Es.	<i>Brewer</i>	Δ T Δ House
Connelly, William James, Ch. Eng.	<i>Pembroke</i>	Mayo Street
Coolbroth, Ernest Leon, Ce.	<i>Portland</i>	Φ Γ Δ House
Cram, Beryl Eliza, Lt.	<i>New Sharon</i>	Balentine Hall
Cram, Ernest Victor, Ce.	<i>Sanford</i>	Φ Γ Δ House
Crawshaw, Thomas Hill, Fy.	<i>Lewiston</i>	202 H. H. Hall
Creamer, Walter Joseph, Jr., Ee.	<i>Bangor</i>	24 George Street, Bangor
Crockett, Mark Vernon, Ed.	<i>Gorham</i>	Θ X House
Crosby, Ruth, He.	<i>Bangor</i>	223 State Street, Bangor
Cushing, Benjamin Hilton, Fy.	<i>Long Island</i>	Σ X House
Dahlgren, Sigfrid Alexander, Ag.	<i>Camden</i>	Δ T Ω House
Davis, Manley Webster, Ch. Eng.	<i>Guilford</i>	Φ Γ Δ House
Davis, Melvin Linwood, Ee.	<i>Sabattus</i>	311 H. H. Hall
DeBeck, Edith Eirena, Rm.	<i>Franklin</i>	Balentine Hall
de Garis, Irving, Fy.	<i>Millbrook, N. Y.</i>	K Σ House
Dennett, Winburn Albert, Ee.	<i>Hopedale, Mass.</i>	Σ A E House
Derby, Pauline, Gm.	<i>Bangor</i>	366 French Street, Bangor
Doe, Harold Oliver, Arts	<i>Bangor</i>	100 Highland Street, Bangor
Dolloff, Philip Warren, Ag.	<i>Standish</i>	312 H. H. Hall
Dow, Kathryn May, He.	<i>Scarsport</i>	Mt. Vernon House
Drisko, Clarence Holmes, Me.	<i>Columbia Falls</i>	Park Street
Dugan, Frances Joan, Gm.	<i>Bangor</i>	54 Sidney Street, Bangor
Dunham, Stephen Merle, Me.	<i>Auburn</i>	Θ X House
Dunn, Perley Bernard, Ag.	<i>Buckfield</i>	Σ A E House
Edgerly, Lloyd Irving, Ch. Eng.	<i>Swampscott, Mass.</i>	111 H. H. Hall
Ellsworth, Harry Arthur, Ag.	<i>Farmington</i>	211 H. H. Hall
Emerson, Raymond LaForest, Fy.	<i>Island Falls</i>	Grove Street
Emmons, Everett Ellsworth, Ee.	<i>Portland</i>	112 Oak Hall
Evans, Weston Sumner, Ce.	<i>South Windham</i>	303 H. H. Hall
Farrar, Helen Wilcox, Eh.	<i>East Corinth</i>	North Hall
Ferguson, Frank Currier, Eh.	<i>New York, N. Y.</i>	K Σ House

Catalog of Students

Fernald, Abraham Chadwick, Jr.,

Es.

Flint, Fannie Persis, He.

Folsom, Dorothy Louise, Gm.

Foss, Charles Leo, Me.

Frawley, Marie Alice, Rm.

French, Gardner Marble, Ce.

Frost, Ermont Getchell, Es.

Fung, Pu Sungyii, Es.

Gammell, Lewis Waldo, Ch. Eng.

Gardner, Leigh Philbrook, Ag.

Gellerson, Vera Elvira, He.

Gibbs, Frederick Donald, Ee.

Gibbs, Grace Mabel, Bl.

Goldberg, Abraham Fred, Es.

Gray, James Harford, Ag.

Greeley, Julian Francis, Rm.

Gross, Maurice Glinton, Ed.

Guinan, William Francis, Ce.

Hagerty, Jean Mason, Es.

Hahn, Edward Everett, Jr., Me.

Haines, Frederick Bates, Ce.

Hall, Sumner Augustus, Ag.

Ham, Wallace Reed, Ee.

Harper, William Chesley, Ee.

Hathaway, Lester Walton, Ce.

Hawthorne, Robert Henry, Ce.

Head, Francis, Cc.

Herlihy, Edward Leo, Bl.

Hill, Roger Benson, Ch. Eng.

Holden, Frank Benn, Me.

Hooper, Henry Stinson, Ch.

Hurd, Robert Gerry, Ch. Eng.

Huskins, Eloise Blanche, Fr.

Hutchins, George Stanley, Me.

Hutton, Robert Granville, Ag.

Hysom, Roscoe Hartwell, Ee.

Jardine, Wilton Scott, Es.

Mt. Desert

West Baldwin

Norridgewock

Woodfords

Bangor

Mansfield, Mass.

Springvale

Ningpo, China

Attleboro, Mass.

Dennysville

Houlton

South Portland

East Orland

Bangor 93 Elm Street, Bangor

Lubec

Portland

Deer Isle

Northampton, Mass.

Bangor

Boothbay Harbor

Portland

Portland

Bath

Gardiner

Bryant's Pond

Brownville

Bangor

Bangor 174 York Street, Bangor

Peabody, Mass.

Oakfield

Orono

Bangor

Auburn

Cape Neddick

Bowdoinham

Cambridge, Mass.

Arlington Heights, Mass.

Δ T Δ House

Balentine Hall

Balentine Hall

Θ X House

Balentine Hall

310 H. H. Hall

K Σ House

210 Oak Hall

310 H. H. Hall

401 H. H. Hall

North Hall

Park Street

Balentine Hall

B Θ II House

B Θ II House

Σ A E House

A T Ω House

203 H. H. Hall

Φ H K House

B Θ II House

Δ T Δ House

104 H. H. Hall

Spearen's Inn

Orono

Main Street

B Θ II House

174 York Street, Bangor

Campus

Φ K Σ House

Pine Street

Φ H K House

North Hall

Σ X House

Θ X House

K Σ House

K Σ House

K Σ House

K Σ House

Jones, Harold Norton, Ee.

Peabody, Mass. 302 H. H. Hall

Catalog of Students

Jordan, Arlo Clifton, Es.	<i>Portland</i>	Park Street
Jortberg, Charles Augustus, Ch. Eng.	<i>Portland</i>	A T Ω House
Joy, Armand Elwood, Ed.	<i>West Sullivan</i>	Σ A E House
Katz, Simon, Ch.	<i>Portsmouth, N. H.</i>	201 H. H. Hall
Kaulfuss, Arthur Frederick, Gm.	<i>La Crosse, Wis.</i>	Main Street
Kellogg, Thelma Louise, Eh.	<i>Vanceboro</i>	Balentine Hall
Kennett, Russell Blaisdell, Me.	<i>Madison, N. H.</i>	16 Bennoch Street
Kinney, Guy Leander, Ce.	<i>Blaine</i>	204 H. H. Hall
Larrabee, Callie Hamm, Bl.	<i>Frankfort</i>	40 Main Street
Lawrence, Lavina Fila, He.	<i>North Lubec</i>	Mt. Vernon House
Leighton, Ralph Melvin, Ch.	<i>Bar Harbor</i>	College Street
Lewis, Roscoe Samuel, Hy.	<i>Auburn</i>	302 H. H. Hall
Libby, Donald Maxwell, Ee.	<i>Orono</i>	Park Street
Libby, Frank Dexter, Ch. Eng.	<i>Gardiner</i>	Δ T Δ House
Libby, Lewie Everett, Es.	<i>Westbrook</i>	Σ X House
Libby, Lucien Taylor, Ch.	<i>Scarboro</i>	103 H. H. Hall
Littlefield, Robert Moses, Ce.	<i>Ogunquit</i>	304 H. H. Hall
Longlèy, George Stephen, Ch. Eng.	<i>Lewiston</i>	B Θ Π House
Lord, Columbus Ellis, Ee.	<i>Foxcroft</i>	Campus
Lovejoy, Raymond Harwood, Ag.	<i>New Sharon</i>	40 North Main Street
Lown, Philip William, Ch. Eng.	<i>Bangor</i>	204 H. H. Hall
McCarthy, Raymond John, Es.	<i>Springfield, Mass.</i>	Bennoch Street
McGrath, Joseph William, Ch.	<i>Northampton, Mass.</i>	101 H. H. Hall
McIlroy, Cecil Dow, Gm.	<i>Milo</i>	Θ X House
McNamara, Raymond Leo, Me.	<i>Orono</i>	Mill Street
McPhee, Hugh Curtis, Ag.	<i>South Paris</i>	209 H. H. Hall
McWilliams, Mona Beatrice, Gm.	<i>Bangor</i>	Mt. Vernon House
Magee, John Henry, Eh.	<i>Bangor</i>	K Σ House
Marsh, Raeburne Lyndon, Ag.	<i>Corinna</i>	305 Oak Hall
Mason, Alice Eliza, Lt.	<i>Mount Desert</i>	College Street
Mathieson, Beatrice Louise, He.	<i>Bangor</i>	Mt. Vernon House
May, Marie Etta, Ag.	<i>Island Falls</i>	College Street
Merrill, Charles Neal, Ch. Eng.	<i>Bangor</i>	Φ Γ Δ House
Merrill, Marguerite Frances, He.	<i>Mechanic Falls</i>	Balentine Hall
Merriman, Lawrence Tilton, Ag.	<i>Harpswell Center</i>	204 Oak Hall
Merritt, Raymond Lowell, Ag.	<i>Brooks</i>	Φ H K House
Mersereau, Vera Lurline, He.	<i>West Somerville, Mass.</i>	North Hall
Mincher, George Earle, Ch. Eng.	<i>Bangor</i>	Φ Γ Δ House
Mooers, Susie Dyer, He.	<i>New Sharon</i>	Balentine Hall

Catalog of Students

Mooney, Richard Henry, Jr., Hy.	<i>Worcester, Mass.</i>	105 Oak Hall
Moore, Madeline, Gm.	<i>Orono</i>	Pine Street
Moore, Robert Colby, Pm.	<i>Bingham</i>	A T Ω House
Morris, Paul Austin, Ed.	<i>Old Town</i>	Old Town
Morse, James Lester, Ag.	<i>Bath</i>	104 H. H. Hall
Moul, Arthur Franklin, Fy.	<i>Hanover, Pa.</i>	Φ K Σ House
Moulton, Simon Waldo, Es.	<i>Sebago Lake</i>	312 H. H. Hall
Mullen, Joseph Norman, Ee.	<i>Bangor</i>	Φ Γ Δ House
Murphy, William Robert, Ag.	<i>Old Town</i>	Old Town
Nealey, Everett Thornton, Jr., Bl.	<i>Bangor</i>	402 H. H. Hall
Newell, George Clifford, Ce.	<i>Turner</i>	303 H. H. Hall
Norton, Donald William, Ch. Eng.	<i>Kingfield</i>	410 H. H. Hall
O'Brien, Arthur Bartholomew, Pm.	<i>Portland</i>	111 H. H. Hall
O'Connell, John Michael, Jr., Eh.	<i>Bangor</i>	Θ X House
Permenter, Robert Brown, Fy.	<i>Marlboro, Mass.</i>	Σ X House
Penley, Ferdinand Josiah, Ag.	<i>Lewiston</i>	Σ A E House
Perkins, Carl Wakefield, Ch. Eng.	<i>Ogunquit</i>	210 H. H. Hall
Perkins, Carleton Lincoln, Fy.	<i>Newburyport, Mass.</i>	Main Street
Perkins, Myles Standish, Me.	<i>Worcester, Mass.</i>	406 H. H. Hall
Perry, Donald Burke, Ee.	<i>Hallowell</i>	Φ H K House
Philbrook, Everett Carlton, Ee.	<i>Gardiner</i>	A T Ω House
Phillips, Ray Eugene, Ed.	<i>Newport</i>	Campus
Pinkham, Jessie Marie, He.	<i>Farmington</i>	Balentine Hall
Pomeroy, John Mann, Ee.	<i>Calais</i>	Campus
Ramsay, John Parker, Es.	<i>Woodfords</i>	Φ K Σ House
Ramsdell, Hollis Leroy, Ag.	<i>West Lubec</i>	Orono
Reardon, Jeremiah Timothy, Es.	<i>Concord, N. H.</i>	K Σ House
Redin, Leeland John, Ch. Eng.	<i>Portland</i>	110 H. H. Hall
Reed, Carrol Coffin, Ag.	<i>Hollis, N. H.</i>	College Street
Reed, Gladys Gage, Gm.	<i>Bangor</i>	38 Elm Street, Bangor
Rich, Robert, Ee.	<i>Berlin, N. H.</i>	308 Oak Hall
Richardson, Burt, Jr., Es.	<i>Glendale, Cal.</i>	B Θ Π House
Richardson, George Lovell, Ag.	<i>Needham, Mass.</i>	Σ X House
Ring, Edgar Raymond, Es.	<i>Orono</i>	Summer Street
Riva, Robert Arthur, Ee.	<i>Berlin, N. H.</i>	305 H. H. Hall
Rose, Hester Miles, Eh.	<i>Brooks</i>	Mt. Vernon House
Ross, Charlotte Ferne, He.	<i>Dexter</i>	Balentine Hall
Rourke, John Edward, Eh.	<i>Beverly, Mass.</i>	2 Bennoch Street
Rowe, Harland Stimson, Es.	<i>Springvale</i>	B Θ Π House
Ruggles, Gould Bishop, Ee.	<i>Reading, Mass.</i>	A X A House

Catalog of Students

Russell, Alfred Mason, Me.	<i>Rangeley</i>	College Street
Russell, Doris Ethel, Bl.	<i>Orono</i>	80 Main Street
Shaw, Albert Leland, Ch. Eng.	<i>Lewiston</i>	Φ Γ Δ House
Shaw, Reba Cleaves, He.	<i>Orono</i>	Park Street
Shea, Thomas Francis, Ce.	<i>Bangor</i>	
	154 Park View Ave., Bangor	
Simms, Henry Swain, Ch.	<i>Gorham</i>	Φ Γ Δ House
Sisson, Willard Case, Ag.	<i>Hartford, Conn.</i>	410 H. H. Hall
Small, Clive Ceylon, Ch. Eng.	<i>Farmington</i>	Φ K Σ House
Spaulding, Herbert Ansel, Ag.	<i>Buckfield</i>	209 Oak Hall
Speirs, James Everett, Ch.	<i>Woodfords</i>	Δ T Δ House
Spratt, Aubury Johnson, Ee.	<i>Bar Harbor</i>	Σ X House
Springer, Clarence Barrows, Ee.	<i>Portland</i>	304 H. H. Hall
Stinchfield, Helen Louise, Lt.	<i>Danforth</i>	North Hall
Storer, Clayton Alton, Ag.	<i>Weld</i>	Campus
Stott, Gerald Ross, Ch. Eng.	<i>Sangerville</i>	303 H. H. Hall
Stuart, Helen Loggie, Gm.	<i>Bangor</i>	14 Davis Street, Bangor
Sturtevant, Walter Conrad, Ag.	<i>Milo</i>	Main Street
Sullivan, George Wilmer, Ch. Eng.	<i>Veazie</i>	R. F. D. 7, Bangor
Swift, Harold Clayton, Ag.	<i>Auburn</i>	309 H. H. Hall
Thaanum, Joanna Mary, He.	<i>Winthrop</i>	Balentine Hall
Theriahult, Dolore Frank, Me.	<i>Millinocket</i>	203 H. H. Hall
Thompson, Seward Roy, Bl.	<i>Standish</i>	103 Oak Hall
Totman, Otto Leslie, Bl.	<i>Fairfield</i>	B Θ Π House
Townsend, Harvard Clark, Ag.	<i>Newport</i>	Campus
Turner, Dwight Wilson, Ag.	<i>Buckfield</i>	209 Oak Hall
Turner, Ernest Julian, Ch. Eng.	<i>Brewer</i>	74 State Street, Brewer
Turner, O'Dillion Charles, Eh.	<i>Veazie</i>	R. F. D. 7, Bangor
Vaughan, Natalie Alice, Ms.	<i>Orono</i>	North Main Street
Vaughan, Sewall Dunbar, Ag.	<i>Warren</i>	Δ T Δ House
Vrooman, Lee, Ag.	<i>Greenville</i>	304 Oak Hall
Watson, Harry Dexter, Me.	<i>West Baldwin</i>	Φ H K House
Webster, Fred Lot, Ag.	<i>Farmington</i>	211 H. H. Hall
Webster, Stephen Tracy, Ch. Eng.	<i>Augusta</i>	B Θ Π House
Wells, Richard Rundlette, Es.	<i>South Bristol</i>	Φ H K House
Wentworth, Ralph Carlton, Ag.	<i>Denmark</i>	110 H. H. Hall
Wescott, Merle William, Ce.	<i>Rumford</i>	Σ Λ E House
Whitcomb, Morton Church, Ch.		
Eng.	<i>Ellsworth</i>	Σ X House
White, Harry Lincoln, Rm.	<i>Belfast</i>	K Σ House

Catalog of Students

Worcester, Frank Clark, Hy.	<i>Harrington</i>	Mill Street
Wunderlich, Albert Whittier, Es.	<i>Arlington, Mass.</i>	Σ X House

FRESHMEN

Adams, Chester Norris, Ee.	<i>Wilton</i>	Φ H K House
Adams, Earl Russel, Ch.	<i>Waterville</i>	Φ Γ Δ House
Adams, Edwin Wentworth, Ch.	<i>Auburn</i>	201 H. H. Hall
Adams, George Joseph, Arts	<i>Orono</i>	35 Mill Street
Agger, Harold Joseph, Arts	<i>Portland</i>	Mayo Street
Altman, Frank Isadore, Ce.	<i>Lawrence, Mass.</i>	110 H. H. Hall
Alward, Harry Allen, Ce.	<i>Bangor</i>	312 H. H. Hall
Ames, Helen Frances, Arts	<i>Vinalhaven</i>	North Hall
Anderson, Carl Alfred, Fy.	<i>East Bridgewater, Mass.</i>	Pine Street
Andrews, Ralph Charles, Me.	<i>South Paris</i>	309 Oak Hall
Arnold, Eugene Fairfield, Ch. Eng.	<i>Foxcroft</i>	14 Bennoch Street
Astle, Ray Milton, Eng.	<i>Houlton</i>	Main Street
Averill, Robert Wallace, Ch. Eng.	<i>Stillwater</i>	Stillwater
Avery, George Halburton, Ag.	<i>North Lubec</i>	101 Oak Hall
Bailey, Stanwood Lee, Arts	<i>Portland</i>	B Θ Π House
Baldwin, Frederick Earl, Ee.	<i>Peabody, Mass.</i>	106 Oak Hall
Barbour, Forrest Atkinson, Ch. Eng.	<i>Woodfords</i>	Σ A E House
Barney, George Curtis, Ee.	<i>Berlin, N. H.</i>	Pleasant Street
Bartlett, Philip Alvin, Ag.	<i>Island Pond, Vt.</i>	Mill Street
Bates, William Dorrill, Fy.	<i>North Islesboro</i>	Park Street
Bean, Harold John, Ch.	<i>Rutland, Mass.</i>	104 Oak Hall
Beaulieu, Jennie Christina, Arts	<i>Old Town</i>	Old Town
Beck, Joseph Thomas, Arts	<i>Augusta</i>	Δ T Δ House
Berry, Max Dudley, Arts	<i>Danvers, Mass.</i>	304 H. H. Hall
Beverly, Verne Curtis, Ag.	<i>Bangor</i>	K Σ House
Billings, Jesse Winfield, Arts	<i>Portland</i>	Mill Street
Black, Ethel Corinne, Arts	<i>Vinalhaven</i>	North Hall
Blakney, Herbert Edson, Ee.	<i>Fairfield</i>	Θ X House
Blanchard, Daniel Briggs, Ag.	<i>Auburn</i>	311 H. H. Hall
Blethen, Melvin Snow, Ee.	<i>Foxcroft</i>	14 Bennoch Street
Boomer, Vurle Lee, Ch. Eng.	<i>Lubec</i>	Park Street
Borjesson, Thomas Whitmore, Ag.	<i>Richmond</i>	16 Bennoch Street
Boyd, Earl George, Arts	<i>Kingman</i>	Δ T Δ House

Catalog of Students

Bradley, Earl Albert, Ee.	<i>Foxcroft</i>	Σ Δ E House
Bragdon, Stacy Lloyd, Ch.	<i>Gorham</i>	410 Oak Hall
Brown, Fred Hopkins, Eng.	<i>Bangor</i>	62 Fifth Street, Bangor
Brown, Ralph Lawrence, Arts	<i>Bristol</i>	Park Street
Bryant, Clarence Philip, Ee.	<i>Lincoln</i>	Φ Γ Δ House
Bunnell, Shirley Abel, Ee.	<i>Wales</i>	406 Oak Hall
Burnham, Philip Merle, Me.	<i>Portland</i>	Grove Street
Cahill, Alice Lena, Arts	<i>North Anson</i>	North Hall
Caine, Mae Frances, Arts	<i>Brewer</i>	18 Main Street, Brewer
Campbell, Henry Whiting, Ce.	<i>Cherryfield</i>	310 H. H. Hall
Campbell, Vergil Isaiah, Ce.	<i>Harmony</i>	108 Oak Hall
Canning, Harold Francis, Law	<i>Bar Harbor</i>	The Page, Bangor
Carlton, George Melvin, Ee.	<i>Woolwich</i>	303 H. H. Hall
Carroll, Charles Michal, Law	<i>Waterville</i>	135 Union Street, Bangor
Colby College	<i>Houlton</i>	Main Street
Cassidy, Donald William, Ee.	<i>Harrison</i>	Park Street
Caswell, Curtis Lowe, Ch. Eng.	<i>Adams, Mass.</i>	Δ T Δ House
Champion, Charles Henry, Ch. Eng.	<i>Fairfield</i>	211 Union Street, Bangor
Chapman, Clyde Raymond, Law	<i>Portland</i>	Σ X House
A. B., Bowdoin College, 1912	<i>Bridgeport, Conn.</i>	Mt. Vernon House
Chellis, Robert Dunning, Ee.	<i>Waterville</i>	102 Main Street
Cheney, Joyce Marguerite, Arts	<i>Saco</i>	Δ T Ω House
Churchill, Warren Stanley, Ch.	<i>North New Portland</i>	Φ H K House
Chute, James Lemuel, Ee.	<i>Machias</i>	North Hall
Clark, Charles Bartlett, Eng.	<i>Albany, N. Y.</i>	Park Street
Clarke, Ruth Gertrude, Arts	<i>Patten</i>	K Σ House
Cleveland, Orestes, Ag.	<i>Woodfords</i>	208 Oak Hall
Coady, Donald Lewis, Ag.	<i>Woodfords</i>	Φ K Σ House
Cobb, Bertrand Everett, Ee.	<i>Bangor</i>	305 Essex Street, Bangor
Cobb, William Bangs, Ag.	<i>Easton</i>	K Σ House
Cohen, Robert, Law	<i>Hallowell</i>	102 Oak Hall
Colbath, Kenneth Brenton, Arts	<i>Caribou</i>	Φ K Σ House
Collins, Paul Torrey, Ch. Eng.	<i>Worcester, Mass.</i>	212 Oak Hall
Collins, Samuel Wilson, Me.	<i>Solon</i>	107 Oak Hall
Cook, Raymond John, Arts	<i>Auburn</i>	Θ X House
Cooley, Leland Rodney, Me.	<i>Portland</i>	Φ H K House
Cooper, Laurence Arthur, Me.	<i>Seymour, Conn.</i>	Mill Street
Corey, Charles Truman, Arts		
Cornforth, Robert Gardner, Me.		

Catalog of Students

Corning, Clarence Hamilton, Arts	<i>Bangor</i>	393 State Street, Bangor
Cosgrove, William Augustine, Ch. Eng.	<i>Biddeford</i>	Φ Γ Δ House
Couette, Ralph Hubert, Law	<i>Westfield, Mass.</i>	
Wesleyan University		71 Third Street, Bangor
Coughlan, William Joseph, Law	<i>Waterville</i>	135 Union Street, Bangor
Cowen, Robert, Ch.	<i>Cambridge, Mass.</i>	Α Τ Ω House
Craig, Ira Caswell, Ee.	<i>Millinocket</i>	203 H. H. Hall
Crocker, Percival Bradford, Me.	<i>Foxboro, Mass.</i>	Σ Χ House
Cross, Hugo Silas, Arts	<i>Guilford</i>	Φ Γ Δ House
Cross, Kendall, Me.	<i>Solon</i>	Φ Η Κ House
Crowley, Frances, Arts	<i>Bangor</i>	15 Forest Ave., Bangor
Culhane, Gerald Joseph, Arts	<i>Boston, Mass.</i>	Hamlin Street
Curran, Anne Genevieve, He.	<i>Great Works</i>	Great Works
Curran, James Joseph, Law	<i>Portland</i>	62 High Street, Bangor
A. B., St. Mary's, 1913		
Curtis, Arthur Burle, Me.	<i>Solon</i>	103 Oak Hall
Cushman, George Mason, Ce.	<i>Portland</i>	Φ Η Κ House
Daley, Edward Desmond, Law	<i>Bangor</i>	16 Sidney Street, Bangor
Dalrymple, Philip Dascomb, Arts	<i>Revere, Mass.</i>	Σ Α Ε House
Darrah, John Clarke Flagg, Ch.	<i>Boston, Mass.</i>	Mayo Street
Davis, Jasper Alden Worcester, Ce.	<i>Beverly, Mass.</i>	North Main Street
Davis, Thomas, Ag.	<i>Veazie</i>	R. F. D. 7, Bangor
Day, Frank Conant, Ce.	<i>Lewiston</i>	Pond Street
DeCoster, Harry Perry, Fy.	<i>Lynn, Mass.</i>	Δ Τ Δ House
Demeritt, Dwight Burgess, Ch.	<i>Sangerville</i>	410 Oak Hall
Denison, Clifford Dawes, Ag.	<i>Harrison</i>	Spearen's Inn
Dennis, Bessie, Arts	<i>Bangor</i>	186 Essex Street, Bangor
DeWolfe, James Codman, Law	<i>Portland</i>	The Colonial, Bangor
Dodd, Clarence John, Ee.	<i>Mexico</i>	Spearen's Inn
Dole, Howard Noyes, Ee.	<i>Haverhill, Mass.</i>	Θ Χ House
Dolloff, Ray Winfield, Ag.	<i>Hillside</i>	212 H. H. Hall
Donovan, Frank Edward, Arts	<i>Turner's Falls, Mass</i>	Θ Χ House
Donovan, Irving Raymond, Arts	<i>Bangor</i>	
		134 Kenduskeag Ave., Bangor
Douglass, Lloyd Richmond, Ee.	<i>Augusta</i>	185 Pine Street, Bangor
Dow, Arthur Greenleaf, Ee.	<i>South Paris</i>	104 H. H. Hall
Dow, Maynard Weston, Ag.	<i>Kent's Hill</i>	Σ Α Ε House
Drew, Harold Ray, Law	<i>Kennebunkport</i>	
		59 Cedar Street, Bangor

Catalog of Students

Drisko, Melvin Tabbutt, Arts	<i>Jonesboro</i>	Park Street
Duncan, Cony Alexander, Ch. Eng.	<i>Augusta</i>	Park Street
Duncan, Kenneth James, Ee.	<i>Washburn</i>	411 H. H. Hall
Dunn, Sherman William, Ch. Eng.	<i>Hallowell</i>	Park Street
Dunning, Robert Blaisde'l, Arts	<i>Bangor</i>	Φ Γ Δ House
Durkee, Harold Allen, Fy.	<i>Swampscott, Mass.</i>	111 H. H. Hall
Eastman, Harland Horace, Ag.	<i>Springvale</i>	109 Oak Hall
Eddy, Lawrence Bailey, Arts	<i>Bangor</i>	242 Cedar Street, Bangor
Ellsworth, William Clarence, Ee.	<i>Farmington</i>	211 H. H. Hall
Emerson, Ralph Waldo, Fy.	<i>Island Falls</i>	Grove Street
Emery, Newell Wyman, Arts	<i>Salisbury Cove</i>	Grove Street
Epstein, Anna Pauline, Arts	<i>Bangor</i>	North Hall
Farmer, Marguerite Eva, Arts	<i>Charleston</i>	Balentine Hall
Farnham, Alton Joshua, Arts	<i>Readfield</i>	Campus
Farnum, Philip Talbot, Ee.	<i>East Wilton</i>	409 H. H. Hall
Farr, Kenneth Randall, Ch. Eng.	<i>Oakland</i>	Λ Τ Ω House
Faulkingham, Bertram Nash, Ee.	<i>Jonesport</i>	Λ Χ Α House
Ferrin, Earle Leslie, Arts	<i>East Corinth</i>	Main Street
Files, Charles Harper, Ch.	<i>Portland</i>	Φ Κ Σ House
Fitzgerald, John Cogan, Law	<i>Bath</i>	316 Hammond Street
Bowdoin College		
Forsyth, Allan Richard, Ag.	<i>Orrington</i>	Orrington
Foss, Charles Earle, Me.	<i>Woodfords</i>	Θ Χ House
Fowler, Burtus Frederic, Me.	<i>Monmouth</i>	406 Oak Hall
Freeland, James Horatio, Ch.	<i>Bangor</i>	Β Θ Π House
French, Marion Elizabeth, Arts	<i>Fort Fairfield</i>	Balentine Hall
French, Minot Elden, Me.	<i>Lincolnville</i>	Park Street
French, Roger Maitland, Ag.	<i>Solon</i>	102 Oak Hall
Froberger, George Auguste Joseph, Ch. Eng.	<i>Augusta</i>	Park Street
Frye, Frances Smith, Ag.	<i>Camden</i>	Park Street
Furey, John Glynn, Arts	<i>Bangor</i>	101 Second Street, Bangor
Gallant, Benjamin Ralph, Arts	<i>Bingham</i>	Β Θ Π House
Gardner, Ruth Electa, He.	<i>Westfield, Mass.</i>	North Hall
Garland, Ernest Leonard, Ch. Eng.	<i>Old Town</i>	Old Town
Gaudreau, Armand Theophane, Ee.	<i>Lewiston</i>	Park Street
Giberson, Claude Trafton, Me.	<i>Groveton, N. H.</i>	309 H. H. Hall
Giles, Cornelius Francis, Me.	<i>Peabody, Mass.</i>	Campus
Girard, Paul Abel, Ee.	<i>Biddeford</i>	Grove Street
Goggin, Francis James, Arts	<i>Orono</i>	Main Street

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Gooch, Marjorie Eunice, He.	<i>Taunton, Mass.</i>	Balentine Hall
Goodwin, Charles Gile, Me.	<i>Springvale</i>	109 Oak Hall
Goodwin, John Elmer, Eng.	<i>St. Albans</i>	College Street
Googins, Richard Lucien, Me.	<i>Biddeford</i>	Grove Street
Gorden, Walter Lincoln, Me.	<i>Livermore Falls</i>	407 Oak Hall
Gordon, Samuel Frederick, Ch.	<i>Lincoln</i>	316 Main Street, Old Town
Gould, Clifford Perkins, Ee.	<i>Kennebunkport</i>	Φ Γ Δ House
Gould, Madeline Lydia, Arts	<i>Bangor</i>	Mt. Vernon House
Graves, Harold Keith, Me.	<i>Presque Isle</i>	Φ H K House
Greene, John Corneilus, Ag.	<i>Salem, Mass.</i>	Δ T Δ House
Griffin, Stephen Augustus, Ch.	<i>Peaks Island</i>	Park Street
Hale, George Lester, Law	<i>Belfast</i>	32 Second Street, Bangor
Haley, Blanche Lillian, He.	<i>Bangor</i>	Balentine Hall
Hall, Ella May, He.	<i>Brewer</i>	Mt. Vernon House
Hall, Elliott Edgar, Fy.	<i>Vinalhaven</i>	401 H. H. Hall
Handley, Hale Wright, Ag.	<i>Camden</i>	Park Street
Hanly, Marion Helena, He.	<i>Warren</i>	Balentine Hall
Hansen, Milton Christopher, Me.	<i>Vernon, Conn.</i>	Park Street
Hanson, Ivan Stevens, Me.	<i>Winter Harbor</i>	
		40 North Main Street
Hardy, Carl Edward, Ag.	<i>Bangor</i>	124 Parkview Ave., Bangor
Harmon, Artemas Henry, Ag.	<i>Portland</i>	Σ X House
Harmon, Perley Francis, Ch.	<i>Caribou</i>	403 Oak Hall
Harootune, Hovhannesian, Law	<i>Boston, Mass.</i>	
		55 Fourth Street, Bangor
West Virginia University;	Euphrates College	
Harper, Herbert Leon, Arts	<i>Calais</i>	102 Main Street
Harriman, Stanley, Ch.	<i>Gardiner</i>	310 Oak Hall
Harrington, Randall Alfred, Ee.	<i>South Bristol</i>	Φ H K House
Harris, Joseph Freeman, Ag.	<i>Patten</i>	K Σ House
Harris, Leon Carleton, Ch.	<i>Portland</i>	111 Oak Hall
Harthorn, Marion Louise, Arts	<i>Milford</i>	Balentine Hall
Haskell, Clara Louise, Arts	<i>Steuben</i>	403 Balentine Hall
Haskins, Edmund, Fy.	<i>Woodfords</i>	88 Main Street
Haskins, Elwina Lewis, He.	<i>Woodfords</i>	403 Balentine Hall
Hatch, Joseph Philip, Ce.	<i>Damariscotta</i>	Λ X Λ House
Haynes, Charles Albert, Fy.	<i>Ellsworth</i>	Σ X House
Henderson, Harry Elmont, Arts	<i>Hartland</i>	209 H. H. Hall
Hilliker, Errold Wallace, Ag.	<i>Corinna</i>	Stillwater
Hitchings, Herbert William, Me.	<i>Caribou</i>	403 H. H. Hall

Catalog of Students

Hitchings, Kathryn Estella, He.	<i>Caribou</i>	Balentine Hall
Hoagland, Webster Comley, Ch.	<i>Stow, Mass.</i>	Λ X A House
Hobbs, Vernon Francis, Ce.	<i>Mattawamkeag</i>	404 H. H. Hall
Hodgdon, Paul Edward, Ch. Eng.	<i>Cliftondale, Mass.</i>	Park Street
Hodgkins, Earle Asmond, Arts	<i>Jefferson</i>	Λ X A House
Holden, Clyde Thaddeus, Ee.	<i>Sabattus</i>	302 Oak Hall
Holston, Clyde William, Ee.	<i>Westbrook</i>	201 H. H. Hall
Holt, Stanley Norris, Ce.	<i>Dorchester, Mass.</i>	Park Street
Hopkins, Adele Cecilia, He.	<i>Old Town</i>	Old Town
Hopkins, Ray Clifford, Ee.	<i>Camden</i>	Peters Street
Howard, Joel Hayden, Ag.	<i>Lewiston</i>	Δ T Δ House
Hudson, Myron Terry, Ag.	<i>Winthrop</i>	Myrtle Street
Hughey, John Millard, Ch. Eng.	<i>Long Island</i>	3 Peters Street
Hurd, Donald Washburn, Me.	<i>Westbrook</i>	Grove Street
Hussey, Leroy Fogg, Arts	<i>Augusta</i>	Park Street
Hussey, Wayne Blethen, Ag.	<i>Patten</i>	Φ K Σ House
Jackson, Frederic Marston, Ch. Eng.	<i>Newburyport, Mass.</i>	307 Oak Hall
Jameson, Foster Davis, Ag.	<i>Friendship</i>	401 Oak Hall
Johonnett, Helen Rowe, Arts	<i>Hampden Highlands</i>	
	Hampden Highlands	
Johnson, Loren Baker, Es.	<i>Fitchburg, Mass.</i>	Σ X House
Jones, Phillip Alonzo, Law	<i>Bangor</i>	
	35 Parkview Avenue, Bangor	
Jones, Samuel Everett, Ee.	<i>Augusta</i>	201 H. H. Hall
Jordan, John Frederick, Law	<i>Bangor</i>	143 Grove Street, Bangor
Jordan, Ruth, Arts	<i>Old Town</i>	Mt. Vernon House
Jordan, Theodore Raymond, Ag.	<i>Cumberland Center</i>	Λ X A House
Katz, Hyman, Law	<i>Bangor</i>	183 York Street, Bangor
Southern College of Medicine	and Surgery	
Keep, John Marcus, Me.	<i>Conway, N. H.</i>	Λ X A House
Kelley, Edward Henry, Eng.	<i>Bangor</i>	52 Essex Street, Bangor
Kelley, Henry Woodhull, Arts	<i>Bangor</i>	16 Bennoch Street
Kendall, Ralph Miles, Ee.	<i>Biddeford</i>	Σ A E House
Kennison, Edward Earle, Fy.	<i>North New Portland</i>	Φ H K House
Kenniston, Luther Edward, Ce.	<i>Amherst</i>	49 Charles Street, Bangor
Kimball, Guy Harold, Arts	<i>Waterboro</i>	212 H. H. Hall
King, Earl Christopher, Arts	<i>Orono</i>	23 Broadway
King, Harold Louis, Ch.	<i>Orono</i>	Pleasant Street
King, Rufus Brooks, Ee.	<i>Peabody, Mass.</i>	Park Street
Kirk, Edward Benedict, Arts	<i>Bar Harbor</i>	Pine Street

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Kittredge, William Carl, Ch. Eng.	<i>Portland</i>	304 H. H. Hall
Knowlton, Norman Perley, Me.	<i>Freedom</i>	Grove Street
Landers, Carleton Ames, Ag.	<i>Easton</i>	Main Street
Larrabee, Clifford Prentiss, Ch. Eng.	<i>Old Town</i>	Old Town
Lasselle, Harry Stearns, Ch. Eng.	<i>Norway</i>	Φ H K House
Lawler, Mark Robinson, Eng.	<i>Southwest Harbor</i>	404 Oak Hall
Lawrence, Arthur Neale, Ee.	<i>North Lubec</i>	Δ T Δ House
Lawrence, Frank Albert, Law	<i>North Lubec</i>	
		24 Sanford Street, Bangor
Lawry, Emerson Chase, Ch.	<i>Fairfield</i>	B Θ II House
Leighton, Chester Frank, Ee.	<i>Strong</i>	168 Grove Street
Levenson, George, Law	<i>Dorchester, Mass.</i>	
		Y. M. C. A., Bangor
Levin, Reuben, Law	<i>Manchester, Vt.</i>	
		63 Elm Street, Bangor
Cornell College		
Lewis, Carl Arthur Randall, Ag.	<i>Augusta</i>	Park Street
Libby, Bernard Augustus, Ee.	<i>Limerick</i>	Mill Street
Ligom, Morris, Arts	<i>Fitchburg, Mass.</i>	310 Oak Hall
Linton, William Harn, Ee.	<i>Lincoln</i>	78 Elm Street, Bangor
Loon, Alfred Joseph, Ee.	<i>Monmouth</i>	Campus
Lord, Frank Wadleigh, Ag.	<i>Kezar Falls</i>	Park Street
Loring, Fred Milton, Law	<i>Auburn</i>	24 Sanford Street, Bangor
A. B., Bates College, 1910		
Lowell, Arthur Wilbur, Ch. Eng.	<i>Portland</i>	K Σ House
Lucas, John Wilbur, Arts	<i>Portland</i>	Θ X House
Luce, Ralph Trueman, Me.	<i>Farmington</i>	211 H. H. Hall
Ludden, Hobart Hayes, Arts	<i>Waltham, Mass.</i>	K Σ House
Lurvey, Preston Eugene, Ch.	<i>Island Falls</i>	Grove Street
McAlister, Lawrence, Arts	<i>Rockland</i>	Main Street
MacBride, Winthrop Lawrence, Fy.	<i>Chelsea, Mass.</i>	207 Oak Hall
MacCharles, Howard Kenneth, Me.	<i>Peabody, Mass.</i>	106 Oak Hall
Macdonald, Maxwell Eugene, Arts	<i>Bangor</i>	257 State Street, Bangor
MacDonnell, Reginald Hugh, Ch.	<i>Ayer, Mass.</i>	88 Main Street
MacFarlane, Frederick Ray, Ee.	<i>South Gardiner</i>	Α T Ω House
McGrath, James Bernard, Ch. Eng.	<i>Northampton, Mass.</i>	311 Oak Hall
McGrath, William Joseph, Law	<i>Rumford</i>	76 Court Street, Bangor
McLean, Edward Archibald, Ce.	<i>Augusta</i>	406 H. H. Hall
Macquarrie, Kenneth Godfrey, Jr., Ch.	<i>Portland</i>	Δ T Δ House

Catalog of Students

Mahoney, John Clinton, Ch. Eng.	<i>Biddeford</i>	Grove Street
Marcou, Napoleon Alphonse, Law	<i>Waterville</i>	
	21 Sanford Street, Bangor	
Marsh, Bernard Church, Fy.	<i>Dexter</i>	A X A House
Martin, Andrew Lawrence, Arts	<i>Woodfords</i>	Φ Γ Δ House
Martin, Willis Gilman, Arts	<i>Hopedale, Mass.</i>	207 Oak Hall
May, Edwin Hyland, Ee.	<i>Hartford, Conn.</i>	Φ K Σ House
Mayers, Warren Thompson, Arts	<i>Bath</i>	307 Oak Hall
Mayo, Donald Atwood, Ee.	<i>Hampden Highlands</i>	K Σ House
Melcher, Edmund Capron, Ag.	<i>Cumberland Mills</i>	Σ X House
Merrow, Lawrence Earle, Ee.	<i>Saco</i>	A T Ω House
Millett, Richard Melvin, Ag.	<i>South Paris</i>	209 H. H. Hall
Mitchell, Arthur Raymond, Ag.	<i>Sabattus</i>	Park Street
Mitchell, Myron Atwood, Ee.	<i>South Berwick</i>	Θ X House
Mooney, Lawrence Henry, Arts	<i>Berlin, N. H.</i>	Pine Street
Moore, Millard George, Ch. Eng.	<i>Old Town</i>	Old Town
Mosher, James Earle, Arts	<i>Belgrade</i>	102 H. H. Hall
Moulton, George Albert, Ce.	<i>East Brownfield</i>	204 H. H. Hall
Murphy, Frank William, Eng.	<i>Machias</i>	Bennoch Street
Newell, George Esty, Ag.	<i>Houlton</i>	Φ K Σ House
Newman, Isaiah Leavitt, Me.	<i>East Wilton</i>	409 H. H. Hall
Niles, Charles Fernald, Ce.	<i>Rumford</i>	409 Oak Hall
Niles, Walter Leslie, Arts	<i>Hallowell</i>	Δ T Δ House
Norcross, Evans Barkley, Ch. Eng.	<i>Portland</i>	Φ Γ Δ House
Northrup, Christine Adelia, Arts	<i>Palermo</i>	28 Bennoch Street
Norton, George Fred, Ag.	<i>Caribou</i>	Park Street
Noyes, Kenneth Bradford, Me.	<i>Orono</i>	Forest Avenue
Ohnemus, Clifford Andrews, Eng.	<i>Waltham, Mass.</i>	Spearen's Inn
Osborne, Loomis Richard Fred- erick, Arts	<i>Fort Fairfield</i>	11 Pond Street
Osgood, Arthur Bradley, Ee.	<i>Bradford</i>	Stillwater
Owen, Robert Roak, Ee.	<i>Auburn</i>	205 Oak Hall
Parker, Erle St. John, Arts	<i>Danforth</i>	Φ Γ Δ House
Parsons, Earle Odber, Ee.	<i>Patten</i>	Park Street
Pattee, Karl Monroe, Ee.	<i>South Limington</i>	Mill Street
Peckham, Earle Stuart, Ag.	<i>Bangor</i>	14 Maple Street, Bangor
Perry, Benjamin Cowl, Jr., Me.	<i>Rockland</i>	Φ Γ Δ House
Perry, Clark, Eng.	<i>Machias</i>	11 Pond Street
Perry, Orin Francis, Jr., Fy.	<i>New York, N. Y.</i>	Φ Γ Δ House
Pierce, Harold Merle, Ch. Eng.	<i>Norridgewock</i>	Φ H K House

Catalog of Students

Pike, Lillian Abby, He.	<i>Fryeburg</i>	North Hall
Piper, Dorothy Eva, Arts	<i>Fairfield</i>	Balentine Hall
Pitts, Samuel Lee, Fy.	<i>Harrison</i>	Park Street
Plummer, Harold Otis, Law	<i>Harrington</i>	71 Third Street, Bangor
Plummer, Norman Dyer, Ce.	<i>Dorchester, Mass.</i>	301 H. H. Hall
Polakewich, Abraham, Ee.	<i>Biddeford</i>	309 H. H. Hall
Poor, Charles Montgomery, Fy.	<i>Andover</i>	Spencer Street
Pratt, Fannie Louise, He.	<i>North New Portland</i>	Balentine Hall
Preti, Frank Peter, Law	<i>Portland</i>	Φ H K House
Prince, Rufus, Eng.	<i>Turner</i>	Spearen's Inn
Pulsifer, James Hayes, Ag.	<i>Auburn</i>	411 H. H. Hall
Quimby, Robert Sinclair, Law	<i>West Campton, N. H.</i>	
	320 Hammond Street, Bangor	
Ranger, Ralph Augustine, Me.	<i>Dryden</i>	Grove Street
Rapp, Herbert, Arts	<i>Turners Falls, Mass.</i>	Λ X Λ House
Richards, Clifton Sweetser, Ch. Eng.	<i>Bucksport</i>	Σ A E House
Richards, Henry Lane, Fy.	<i>Portland</i>	Φ Γ Δ House
Rideout, Elmer William, Ch.	<i>Bucksport</i>	
	116 Jackson Street, Bangor	
Ring, Arthur Andrews, Me.	<i>Orono</i>	Summer Street
Robbins, Hamlyn Nelson, Ag.	<i>Arlington, Mass.</i>	Σ X House
Robbins, Victor Hugo, Eng.	<i>Old Town</i>	Old Town
Rodick, Serenus Burleigh, Ag.	<i>Bar Harbor</i>	Σ X House
Rowe, Allen Bedford, Ag.	<i>Portland</i>	Φ H K House
Rumill, George Edwin, Ce.	<i>Mount Desert</i>	Mill Street
Russell, George Frederick, Ag.	<i>Methuen, Mass.</i>	Mill Street
Russell, Orlando Parker, Arts	<i>Hanover</i>	209 H. H. Hall
Ryan, Stephen Joseph, Me.	<i>Ayer, Mass.</i>	Main Street
Sawyer, Charles Augustine, Me.	<i>Portland</i>	Θ X House
Schenck, Frederic Van Nydick, Ee.	<i>Millinocket</i>	102 Main Street
Scott, Edith May, Arts	<i>Wolfeboro, N. H.</i>	Gilbert Street
Scott, Ethel Lue, Arts	<i>Wolfeboro, N. H.</i>	Gilbert Street
Sears, Albert Johnson, Ce.	<i>Woodfords</i>	112 Oak Hall
Segal, Abraham, Arts	<i>Lewiston</i>	Old Town
Shaw, Burton Alfred, Ag.	<i>Sanford</i>	309 Oak Hall
Sherman, Elmo Linwood, Arts	<i>Bangor</i>	Spencer Street
Shorey, Clyde Norman, Ag.	<i>Belfast</i>	College Street
Simpson, Gilroy Sousa, Ag.	<i>Caribou</i>	Park Street
Sinnett, Ralph Vernon, Ch. Eng.	<i>Brewer</i>	Brewer

Catalog of Students

Small, Melville Lee, Pm.	<i>Stonington</i>	Main Street
Smallidge, Orman Samuel, Me.	<i>Northeast Harbor</i>	Park Street
Smargonsky, Isaac, Arts	<i>Ashland</i>	Park Street
Smiley, Floyd Franklin, Ag.	<i>Caribou</i>	403 H. H. Hall
Smiley, Samuel Raymond, Ag.	<i>Waterville</i>	H. H. Hall
Smith, Cecil Kendrick, Ag.	<i>Brookline, Mass.</i>	B Θ Π House
Smith, Dana Gerald, Ee.	<i>Vinalhaven</i>	401 H. H. Hall
Smith, Faye, Arts	<i>Machias</i>	North Hall
Smith, Raymond James, Me.	<i>South Brewer</i>	Θ X House
Smith, Roy Harold, Me.	<i>Fayette</i>	Park Street
Somers, Roy Merry, Ag.	<i>Portland</i>	Δ T Δ House
Southard, Freeman Lennox, Ee.	<i>Wiscasset</i>	Λ X A House
Spear, Estelle Paulina, He.	<i>Portland</i>	Balentine Hall
Stacy, Percy Arthur, Ag.	<i>Foxcroft</i>	Σ A E House
Stanley, Watson Frank, Arts	<i>Springvale</i>	B Θ Π House
Staples, Harold Sanborn, Eng.	<i>Carthage</i>	Myrtle Street
Steadman, Donald Melville, Arts	<i>Bridgton</i>	Stillwater
Stephenson, Clarence Baker, Ch.	<i>Portland</i>	307 Oak Hall
Stevens, Stanley Alonzo, Ee.	<i>East Lynn, Mass.</i>	Φ Γ Δ House
Stevenson, William Stanley, Ee.	<i>Thorndike</i>	Park Street
Stewart, Clyde Wentworth, Ch. Eng.	<i>Saco</i>	A T Ω House
Stoddard, Edgar Addington, Ch.	<i>Portland</i>	111 Oak Hall
Stratton, Horace Evans, Ee.	<i>Hancock</i>	Σ A E House
Strout, Harold Kimball, Ee.	<i>Portland</i>	404 H. H. Hall
Stubbs, Marian Esther, He.	<i>Bucksport</i>	Mt. Vernon House
Sturgis, Alfred Chamberlain, Ag.	<i>Auburn</i>	202 H. H. Hall
Suttie, Thomas Harold, Ag.	<i>Waterville</i>	310 H. H. Hall
Swan, William Francis, Ch.	<i>Berlin, N. H.</i>	Pleasant Street
Sweatt, Cecil Clayton, Arts	<i>Andover</i>	Spencer Street
Swicker, Lester Clayton, Ee.	<i>Townsend, Mass.</i>	203 H. H. Hall
Taylor, Enid Dorothy, Arts	<i>North Sullivan</i>	Balentine Hall
Taylor, William Henry, Arts	<i>Rumford</i>	409 Oak Hall
Thomas, Albert Hale, Arts	<i>Lincoln</i>	Φ K Σ House
Thomas, John Harold, Arts	<i>Turner's Falls, Mass.</i>	8 Hill Street
Thompson, Bernard Vinal, Ch.	<i>Easton</i>	Main Street
Thompson, George Edward, Ag.	<i>Bangor</i>	Θ X House
Thompson, Newton Bartlett, Ce.	<i>Gardiner</i>	B Θ Π House
Tibbetts, Louis Elmore, Ag.	<i>Cambridge, Mass.</i>	Park Street
Tierney, Arthur Joseph, Me.	<i>Westfield, Mass.</i>	Σ A E House

Catalog of Students

Titcomb, Leslie Burton, Arts	<i>Kennebunk</i>	412 Oak Hall
Torrey, Norman Elvin, Arts	<i>Stonington</i>	K Σ House
Towne, Leland Charles, Ch. Eng.	<i>Madison</i>	304 H. H. Hall
Tozier, Alton Warren, Me.	<i>Litchfield</i>	Park Street
Tracy, Frank Alton, Ee.	<i>Cherryfield</i>	Park Street
Trask, Newell Jefferson, Ag.	<i>South Jefferson</i>	North Main Street
Trecartin, Julian Edward, Arts	<i>Lubec</i>	311 Oak Hall
True, Nathan Frank, Eng.	<i>Freeport</i>	K Σ House
True, Norman Evans, Eng.	<i>Woodfords</i>	Grove Street
Tupper, Ernest Grant, Ag.	<i>Princeton</i>	203 Oak Hall
Turgeon, Henry Wallace, Ch.	<i>Auburn</i>	B Θ Π House
Tuttle, Rubie Margaret, He.	<i>Caribou</i>	401 Balentine Hall
Upham, Warren Pratt, Fy.	<i>Pasadena, Cal.</i>	11 Pond Street
Vancore, Dixon Frederick, Law	<i>Colebrook, N. H.</i>	173 Ohio Street, Bangor
Vaughan, Malcolm, Ag.	<i>Belfast</i>	303 Oak Hall
Wade, Elmer Joseph, Eng.	<i>Richmond</i>	Campus
Wallingford, Vernon Howard, Ch. Eng.	<i>Auburn</i>	205 Oak Hall
Webber, Paul Franklin, Ag.	<i>Kennebunk</i>	412 Oak Hall
Weeks, Donald Ross, Ag.	<i>Rockland</i>	Park Street
Weisman, Samuel, Ee.	<i>Portland</i>	206 Oak Hall
Wellington, Linwood Wiley, Ch.	<i>Caribou</i>	Φ K Σ House
Wellington, William Herbert, Fy.	<i>South Royalton, Vt.</i>	Campus
West, Frank Raymond, Ee.	<i>Old Town</i>	Old Town
Weymouth, Merle McCausland, Fy.	<i>Howland</i>	401 Oak Hall
Whalen, Oscar Livermore, Arts	<i>Eastport</i>	306 Oak Hall
Wheeler, Ella Adams, Arts	<i>Bangor</i>	Mt. Vernon House
Whitehouse, Ralph Murch, Arts.	<i>Fort Fairfield</i>	Σ X House
Whitehouse, Thurle Stevens, Ee.	<i>Portland</i>	312 Oak Hall
Wiggin, Paul Esmond, Ce.	<i>Winthrop</i>	Θ X House
Wight, Willard, Ce.	<i>Berlin, N. H.</i>	Mayo Street
Wilkins, Ralph Allen, Ch.	<i>Beverly, Mass.</i>	88 Main Street
Williams, Randall Vaughan, Ag.	<i>Lisbon Falls</i>	204 Oak Hall
Winslow, Willis Stone, Eng.	<i>Waldoboro</i>	404 Oak Hall
Winter, Clifford Maurice, Ee.	<i>Kingfield</i>	Δ T Δ House
Wood, Ralph Harold, Ee.	<i>Togus</i>	K Σ House
Woodsum, Esther Madeline, He.	<i>Dixfield</i>	North Hall
Wooster, Kenneth Thorndike, Arts	<i>Rockport</i>	Park Street
Wy'de, Paul Linton, Ch.	<i>Lawrence, Mass.</i>	Σ X House

Catalog of Students

Yeaton, Russell Powers, Ag.	<i>Belgrade</i>	Spearen's Inn
Young, Kenneth Thwing, Arts	<i>Arlington, Mass.</i>	Σ X House
Young, Thomas Jefferson, Jr., Me.	<i>Solon</i>	Α T Ω House
Ziegler, Charles Melvin, Ag.	<i>So. Boston, Mass.</i>	B Θ Π House

SPECIALS

Beach, Dorothea, Arts	<i>Bangor</i>	Mill Street
Bieler, Alexander Bert, Law	<i>New York, N. Y.</i>	
	183 York Street, Bangor	
Bisbee, Francis Wilbert, Ht.	<i>East Sumner</i>	Middle Street
Blais, Frank Phillip, Law	<i>Portland</i>	176 Court Street, Bangor
Blanchard, Everard Eells, Bl.	<i>Buenos Aires, Argentina, S. A.</i>	
	Forest Avenue	
Brooks, Samuel Stevens, Ed.	<i>Orono</i>	Middle Street
Brown, Kenneth Parker, Me.	<i>Portland</i>	Δ T Δ House
Brownstein, Abraham Abe, Law	<i>East Surry</i>	
	215 Maple Street, Bangor	
Campbell, Charles Francis, Ce.	<i>Ellsworth</i>	Δ T Δ House
Carter, Lauriston Folger, Ph.	<i>Braintree, Mass.</i>	Park Street
Chamberlain, Newell Burnap, Es.	<i>Cambridge, Mass.</i>	102 H. H. Hall
Clarke, Joseph Lawrence, Law	<i>Waterville</i>	
	116 Sanford Street, Bangor	
Conquest, Edward James, Law	<i>Bangor</i>	88 Sidney Street, Bangor
Corey, Solomon, Ce.	<i>Bangor</i>	258 Hancock Street, Bangor
Crowley, Wallace Edgar, Law	<i>Bangor</i>	10 Chester Place, Bangor
Curtis, Paul Cate, Ag.	<i>Swampscott, Mass.</i>	111 H. H. Hall
Curtis, Walter Edson, Bl.	<i>Stillwater</i>	Stillwater
Davis, Arthur Linwood, Ee.	<i>Auburn</i>	Θ X House
Dodge, Richard Boulshby, Ph.	<i>Machias</i>	211 Oak Hall
Eames, Clayton Earle, Law	<i>North Anson</i>	
	55 Fourth Street, Bangor	
Flanagan, William Joseph, Law	<i>Ellsworth</i>	313 State Street, Bangor
St. Anselm's College		
Gallagher, James Augustine, Law	<i>Bangor</i>	34 Elm Street, Bangor
Gallagher, William Wallace, Law	<i>Limestone</i>	The Colonial, Bangor
Gilllin, George Henry, Law	<i>Bangor</i>	119 Pine St., Bangor
Gould, Melville Asher, Ph.	<i>Old Town</i>	Old Town
Hackett, Rhonello Conant, Law	<i>Pittsfield</i>	The Hayward, Bangor
Hamlin, Emery Leroy, Fy.	<i>Portland</i>	88 Main Street
Hanley, Michael John, Law	<i>Bangor</i>	101 Fern Street, Bangor

Catalog of Students

Hitchings, Samuel Lord, Ht.	<i>Orono</i>	Pleasant Street
James, Pearl, He.	<i>Orono</i>	75 North Main Street
Jewett, Donald Campbell, Law	<i>Cherryfield</i>	62 Court Street, Bangor
Joyce, Alvah Barbour, Arts	<i>Portland</i>	Oak Street
Kimball, Millard Allan, Law	<i>Biddeford</i>	166 Union Street, Bangor
King, Fred Rollins, Me.	<i>Fairfield</i>	Grove Street
Ladner, Roy Alexander, Arts	<i>Orono</i>	Park Street
Lane, Orlando Hook, Law	<i>Topsfield</i>	173 Ohio Street, Bangor
Leighton, Arthur Whiting, Ag.	<i>Abington, Mass.</i>	University Inn
Lemont, Herbert Randall, Fy.	<i>Bath</i>	Σ A E House
Little, Joseph Louis, Law	<i>Portland</i>	59 Essex Street, Bangor
Little, Nellie Ursula, Arts	<i>Portland</i>	Mt. Vernon House
Mahoney, Edmund Patrick, Law	<i>Portland</i>	84 Cedar Street, Bangor
Mann, Josephine Estelle, He.	<i>Orono</i>	Main Street
Marquis, Joseph Augustin, Law	<i>Waterville</i>	
Colby College		21 Sanford Street, Bangor
Miller, Harold Ames, Arts	<i>Portland</i>	Pond Street
Mooney, Maria Augusta, He.	<i>Orono</i>	Main Street
Morris, Abraham, Law	<i>Bangor</i>	36 Essex Street, Bangor
Morse, Earle Howard, Ch.	<i>Orono</i>	211 Oak Hall
Mulvaney, Harry Thomas, Law	<i>Bangor</i>	199 Pine Street, Bangor
Neal, Levi Ernest, Law	<i>Bangor</i>	
		245 Parkview Avenue, Bangor
Newdick, Erlon Lincoln, Ag.	<i>Sanford</i>	K Σ House
Noyes, Garth Albert, Ee.	<i>Orono</i>	Forest Avenue
Osler, Janette, He.	<i>Orono</i>	Main Street
Payson, Walter Mayo, Law	<i>South Hope</i>	
Colby College		19 Fourth Street, Bangor
Perkins, Edward Adolphus, Ee.	<i>Old Orchard</i>	Σ X House
Prescott, Glenn Carleton, Fy	<i>Kezar Falls</i>	Φ H K House
Riley, James Vincent, Law	<i>Madison</i>	55 Fourth Street, Bangor
Robinson, Albert Lealand, Ph.	<i>South Windham</i>	Θ X House
Savage, Frank John, Es.	<i>Fairfield</i>	K Σ House
Siddall, Cecil James, Law	<i>Sanford</i>	17 Fourth Street, Bangor
Sidelinger, Claude Lyndon, Ed.	<i>Washington</i>	College Street
Smith, Royal Howard Gould, Ee.	<i>Gorham</i>	Σ X House
Spaulding, Earl Williams, Ag.	<i>Solon</i>	Φ H K House
Stanton, John Clifford, Ph.	<i>South Thomaston</i>	402 Oak Hall
Stevens, Norris Frederick, Law	<i>Rockland</i>	
		212 Center Street, Old Town

Catalog of Students

Sukeforth, Raymond Oscar, Law	<i>Fort Fairfield</i> 62 Court Street, Bangor
Sullivan, John Anthony, Law	<i>Nashua, N. H.</i> 64 Sanford Street, Bangor
Thorne, Gertrude, Arts	<i>Newport</i> Newport
Thornton, Lorenzo Ernest, Law Colby College	<i>Houlton</i> 211 Union Street, Bangor
Urbano, Angelo Joseph, Law	<i>Portland</i> 59 Essex Street, Bangor
Ware, John, Law Colby College	<i>Waterville</i> The Hayward, Bangor
Watson, James Bennett, Law	<i>Bangor</i> The Colonial, Bangor
Whitney, Raymond Lee, Fy.	<i>North Anson</i> 307 H. H. Hall
Willey, Walter Francis, Ag.	<i>Kent's Hill</i> Σ A E House
Woods, Harry Morgan, Ag. B. A., University of Maine, 1909	<i>Orono</i> Main Street

TWO YEAR PHARMACY

SECOND YEAR

Blanchet, Earle Oliver	<i>Northampton, Mass.</i> Spearen's Inn
Demers, Odias Joseph	<i>Sanford</i> 405 H. H. Hall
Grant, Horace Elwin	<i>Waterville</i> 103 Oak Hall
Hargreaves, Frank Irving	<i>Sanford</i> 405 H. H. Hall
Leighton, Lester Howard	<i>Orono</i> College Street
Mackin, William James	<i>Millinocket</i> Θ X House
O'Leary, Edwin Dolan	<i>Bangor</i> B Θ II House
Parker, Chester Robert	<i>Bluehill</i> 204 H. H. Hall
Staples, Carroll Russell	<i>Norridgewock</i> 64 Lincoln Street, Bangor

FIRST YEAR

Berridge, Frank Edward	<i>Lynn, Mass</i> 80 Main Street
Clark, Charles Wesley	<i>Norway</i> 103 H. H. Hall
Clark, Roger Hopkins	<i>Frankfort</i> Pierce Street
Crommett, Vinal Webster	<i>Millinocket</i> College Street
Dorfman, Samuel	<i>Portland</i> 206 Oak Hall
Huntoon, Hayden Sherman	<i>Rangeley</i> Spearen's Inn
Mackenzie, Gerald LeRoy	<i>West Franklin</i> 203 Oak Hall
Richards, Carl Arthur	<i>Van Buren</i> Θ X House
Simpson, Helen Antoinette	<i>Waterville</i> North Hall

Catalog of Students

HOME ECONOMICS

SECOND YEAR

Beckett, Mary Newton	<i>Calais</i>	Mt. Vernon House
Burleigh, Mollie Geneva	<i>Biddeford</i>	Mt. Vernon House
Clapp, Grace Elizabeth	<i>West Somerville, Mass.</i>	Balentine Hall
Clark, Lucile Greeley	<i>Orono</i>	Main Street
Clark, Edith Gertrude	<i>Peaks Island</i>	Balentine Hall
Folley, Veda Desire	<i>Sangerville</i>	Forest Avenue
Jones, Mildred Iva	<i>Unity</i>	Forest Avenue
Leighton, Mildred Estelle	<i>Orono</i>	College Street
Perry, Emma Spring	<i>Machias</i>	North Hall
Pike, Helen	<i>Monmouth</i>	Balentine Hall
Royal, Erma Lucile	<i>Houlton</i>	Mt. Vernon House
Taylor, Helen Perley	<i>Peabody, Mass</i>	Mt. Vernon House
Thomas, Marion Louise	<i>Newburyport, Mass.</i>	Balentine Hall

FIRST YEAR

Corcoran, Pauline	<i>Port'and</i>	Main Street
Davis, Anita Mae	<i>Jefferson</i>	North Hall
Eastman, Doris Burkett	<i>Warren</i>	North Hall
Hamor, Gladys Leone	<i>Bangor</i>	22 Kenduskeag Avenue, Bangor
Little, Aleida Elizabeth	<i>Portland</i>	Mt. Vernon House
McCann, Mary Elizabeth	<i>Bangor</i>	74 Birch Street, Bangor
Meade, Mildred Leila	<i>Saco</i>	North Hall
Murphy, Rachel Virginia	<i>Portland</i>	Balentine Hall
Osler, Bertha	<i>Orono</i>	Main Street
Pretto, Theresa Helen	<i>Bangor</i>	50 Pine Street, Bangor
Prince, Jessie May	<i>Yarmouth</i>	Balentine Hall
Sawyer, Lula Frances	<i>Brewer</i>	Brewer

SCHOOL COURSE IN AGRICULTURE

SECOND YEAR

Bennett, Harry Stowe	<i>Millbury, Mass.</i>	Grove Street
Estes, Harold Dudley	<i>Searsport</i>	208 Oak Hall
Fowler, John Earl	<i>Portland</i>	Park Street
Hobbs, Ellsworth Joseph	<i>Mattawamkeag</i>	404 H. H. Hall

Catalog of Students

Lambert, Leon Elwin	<i>Brewer</i>	Brewer
Leavitt, Lloyd Foss	<i>Guilford</i>	201 H. H. Hall
Martin, Edwin Clarence	<i>Liberty</i>	Park Street
Moore, Joseph Henry, Jr.	<i>Winthrop</i>	Campus
Roberts, George Edward	<i>Weeks Mills</i>	Campus
Sherman, Reid Myles	<i>Island Falls</i>	Campus
Snow, Vergne Rockwood	<i>Portland</i>	A T Ω House
Trueworthy, George Fay	<i>Mattawamkeag</i>	404 H. H. Hall

FIRST YEAR

Adams, Carl Frank	<i>Kennebunkport</i>	405 Oak Hall
Allen, Herbert Marsena	<i>Bangor</i>	Park Street
Bean, Francis Albion	<i>Bethel</i>	308 Oak Hall
Benson, Alton Howard	<i>Kennebunkport</i>	405 Oak Hall
Beverage, Arthur Walter	<i>North Haven</i>	109 H. H. Hall
Bickford, Harry Elmer	<i>Scarsmont</i>	Park Street
Brackett, Herman Cook	<i>Portland</i>	304 H. H. Hall
Brown, Earl Stanley	<i>Presque Isle</i>	Park Street
Chapin, Philip Edmund	<i>Saco</i>	Grove Street
Donaldson, Laurene Everit	<i>Stockton Springs</i>	Main Street
Ebeling, George Frank	<i>New York City</i>	305 H. H. Hall
Field, Kenneth Jackman	<i>Guilford</i>	212 H. H. Hall
Hagstrom, Conrad Walfrid	<i>Auburn, Mass.</i>	Grove Street
Hayes, Fred Lindall	<i>Foxcroft</i>	Grove Street
Jacobs, Franklin Oscar	<i>West Berlin, Mass.</i>	303 Oak Hall
Kyes, Howard Ernest	<i>North Jay</i>	105 Oak Hall
Kyes, Ralph Granville	<i>North Jay</i>	105 Oak Hall
Libby, Alton Bert	<i>Oakland</i>	A T Ω House
Lowell, Carleton White	<i>Bath</i>	104 H. H. Hall
Marshall, Mason Henry	<i>Topsham</i>	College Street
Parker, Stanley Bradbury	<i>South Leeds</i>	202 H. H. Hall
Pendleton, Raymond Fowles	<i>Camden</i>	Peters Street
Pratt, Charles Lewis	<i>Yarmouthville</i>	Spearen's Inn
Smith, John Herbert	<i>Houlton</i>	Main Street
Sullivan, Daniel Cleveland	<i>Lubec</i>	Park Street
Thomas, Fletcher Alton	<i>Leeds Center</i>	Spearen's Inn
Thompson, Arthur Weight	<i>Portland</i>	306 Oak Hall
Weeks, Harold Cass	<i>Marlboro, Mass.</i>	Grove Street
Worthley, Clifford Nelson	<i>Strong</i>	Grove Street
Wright, William Trott	<i>Woolwich</i>	Pond Street

General Summary

GENERAL SUMMARY

FACULTY

President	I
Professors	41
Associate Professors	17
Assistant Professors	16
Extension Representatives	16
Instructors	47
Lecturers	8
Assistants	8
<hr/>	
Total	154

College of Agriculture	39
College of Arts and Sciences	48
Agricultural Experiment Station	15
College of Law	11
College of Technology	33
Officers common to all Colleges	8
<hr/>	
	154

STUDENTS

Graduate students	46
Seniors	153
Juniors	216
Sophomores	226
Freshmen	406
Specials	71
Two Year Pharmacy, Second Year	9
First Year	9
Two Year Home Economics, Second Year	13
First Year	12
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School Course Agriculture, First Year	30	
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		<hr/>
Total (omitting duplicates, 66)		1269

CLASSIFICATION BY RESIDENCE

Maine, by counties :		
Androscoggin	65	
Aroostook	47	
Cumberland	169	
Franklin	29	
Hancock	64	
Kennebec	70	
Knox	33	
Lincoln	20	
Oxford	36	
Penobscot	294	
Piscataquis	30	
Sagadahoc	21	
Somerset	42	
Waldo	28	
Washington	48	
York	68	1064
California	3	
Connecticut	12	
District of Columbia	1	
Florida	1	
Indiana	1	
Kentucky	1	
Massachusetts	132	
Michigan	1	
New Hampshire	22	
New York	13	
Ohio	1	
Pennsylvania	5	
Rhode Island	2	
Vermont	3	

General Summary

Wisconsin	2	
Argentina	2	
China	2	
India	1	205
		<hr/>
		1269

CLASSIFICATION BY COLLEGES

Graduate students	46	
College of Agriculture	331	
College of Arts and Sciences	343	
College of Law	101	
College of Technology	448	
		<hr/> 1269

CANDIDATES FOR DEGREES

Graduate students	46
College of Agriculture	243
College of Arts and Sciences	288
College of Law	69
College of Technology	438

The following students registered in short courses given in the College of Agriculture:

Name	Course	Home Address
Andrews, Alfred D.	Horticulture	West Paris, R. F. D. 1
Archibald, Roy	Horticulture	Sebago
Bartlett, E. F.	General Agriculture	Bangor 155 Parkview Ave.
Bartlett, Philip	Dairying	Island Pond, Vt.
Bowie, Hubert A.	Poultry Husbandry	Lisbon
Briggs, William	Horticulture	Brewer
Burnell, Guy D.	General Agriculture	St. Albans, Vt.
Butler, Julian A.	Poultry Husbandry	Egypt
Byers, Edw. A.	Horticulture, Bangor,	15 State Street
Davis, Atwood	Horticulture	Caribou
Hardy, C. E.	General Agriculture	Bangor 124 Parkview Ave.
Harris, Oscar S.	Dairying	Stockton Springs
Hodgkins, Clarence T.	Poultry	South Brewer

General Summary

Holman, Myron L.	Horticulture	Dixfield
Humphrey, Herman O.	Dairying	Island Pond, Vt.
Hurley, Wilfred G.	Poultry	Frankfort
Lane, Ralph W.	Poultry	So. Portland, R. F. D. 8
Long, Arthur F.	Poultry Husbandry	Hallowell
Luce, Neil F.	Agriculture	Strong
Merrill, Carl N.	Poultry	So. Portland, R. F. D. 8
Mitchell, Irving S.	Poultry	Bar Harbor
Norton, Ernestine	Poultry Husbandry	
		Portland, R. F. D. 4
Perkins, Ralph	Agriculture	Baileyville
Robinson, Fred	Agriculture	Cumberland Center
Smith, Walter	Dairying	Bangor, 15 State Street
Soule, Clayton J.	Poultry	So. Freeport
Stone, A. B.	Poultry	Brownville
Talbot, George W.	Dairying	Turner
Vincent, P. J.	General Agriculture	
		Cornville, R. F. D. 7
Weight, William F.	Poultry	Veazie
Wellman, Marion J.	Poultry	Lewiston, 9 Arch Avenue
White, Harold S.	General Agriculture	Lewiston

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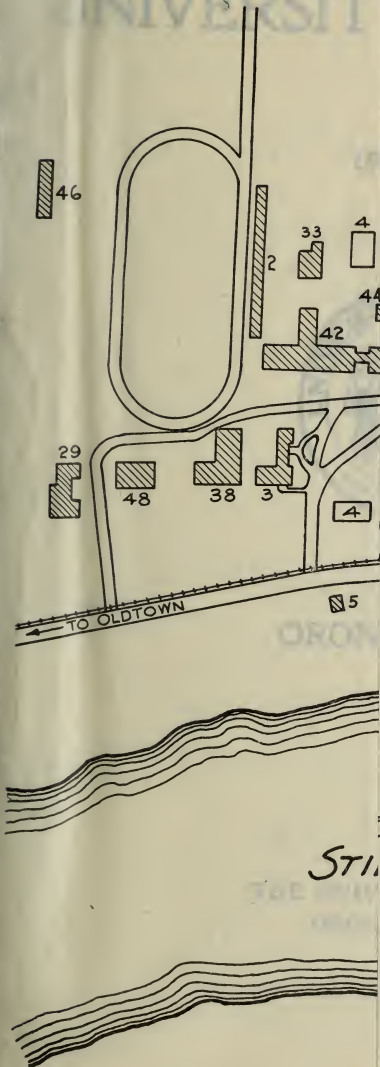
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- 1 Athletic Field
- 2 Grand Stand
- 3 Beta Theta Pi House
- 4 Tennis Courts
- 5 Pumping Station
- 6 Janitor's House
- 7 Oak Hall
- 8 Wingate Hall
- 9 Fernald Hall
- 10 Power House
- 11 Alumni Hall
- 12 University Press
- 13 Coburn Hall
- 14 President's House
- 15 Observatory
- 16 Horticultural Building
- 17 Holmes Hall
- 18 Home Economics Laboratory
- 19 Stable
- 20 Dairy
- 21 Barns
- 22 Farm Superintendent's House
- 23 Professor's House
- 24 Kappa Sigma House
- 25 Mt Vernon House
- 26 Phi Gamma Delta House
- 27 B. O. & O. Waiting Rooms
- 28 Lord Hall
- 29 Phi Epsilon Pi House
- 30 Phi Kappa Sigma House
- 31 Sigma Alpha Epsilon House
- 32 Store House
- 33 Infirmary
- 34 Library
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- 36 Heating Plant
- 37 Winslow Hall
- 38 Theta Chi House
- 39 Phi Eta Kappa House
- 40 Stock Judging Pavilion
- 41 Delta Tau Delta House
- 42 Hannibal Hamlin Hall
- 43 Professors' Houses
- 44 Estabrooke Hall
- 45 Balentine Hall
- 46 Baseball Grand Stand
- 47 Aubert Hall
- 48 Sigma Nu House
- 49 Carpenter Shop





CATALOG OF THE
UNIVERSITY OF MAINE

1916-1917



ORONO, MAINE

THE UNIVERSITY PRESS
ORONO, MAINE

1916

GW

1916	1917	1917	1918
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CALENDAR

FALL SEMESTER, 1916

September	15-19,		Arrearage examinations; entrance examinations
September	20,	Wednesday,	Registration, 8.00 A. M.—5.00 P. M.
September	21,	Thursday,	Registration, 8.00 A. M.—5.00 P. M.
			First chapel, 10.30 A. M.
November	30,	Thursday,	Thanksgiving Day, a holiday
December	20,	Wednesday,	Christmas recess begins, 5.05 P. M.

1917

January	4,	Thursday,	Christmas recess ends, 8.00 A. M.
February	2,	Friday,	Fall semester ends, 5.05 P. M.

SPRING SEMESTER, 1917

February	3,	Saturday,	Registration
February	5,	Monday,	Spring semester begins, 8.00 A. M.
February	22,	Thursday,	Washington's Birthday, a holiday
March	21,	Wednesday,	Spring recess begins, 5.05 P. M.
March	29,	Thursday,	Spring recess ends, 8.00 A. M.
April	19,	Thursday,	Patriot's Day, a holiday
May	30,	Wednesday,	Memorial Day, a holiday
June	6-9,		Entrance examinations
June	10,	Sunday,	Baccalaureate address
June	11,	Monday,	Class Day
June	12,	Tuesday,	Meeting of Board of Trustees
June	13,	Wednesday,	COMMENCEMENT, 9.30 A. M.

SUMMER TERM

June	25,	Monday,	Summer Term begins, 8.00 A. M.
August	3,	Friday,	Summer Term ends

UNIVERSITY OF MAINE

FALL SEMESTER, 1917

September 14-18,		Arrearage examinations; entrance examinations
September 19,	Wednesday,	Registration, 8.00 A. M.
September 20,	Thursday,	Registration; first chapel, 10.30 A. M.
November 29,	Thursday,	Thanksgiving Day, a holiday
December 19,	Wednesday,	Christmas recess begins, 5.05 P. M.

1918

January 3,	Thursday,	Christmas recess ends, 8.00 A. M.
February 1,	Friday,	Fall semester ends, 5.05 P. M.

SPRING SEMESTER, 1918

February 2,	Saturday,	Registration
February 4,	Monday,	Spring semester begins, 8 A. M.
June 12,	Wednesday,	COMMENCEMENT

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Term expires May 7, 1920	

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UNIVERSITY OF MAINE

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UNIVERSITY OF MAINE

*FACULTY OF INSTRUCTION AND
INVESTIGATION

ROBERT JUDSON ALEY

Campus

PRESIDENT

A. B., Indiana, 1888; A. M., 1890; Ph. D., University of Pennsylvania,
1897; LL. D., Franklin, 1909

JAMES MONROE BARTLETT

148 College Street

Chemist in the Agricultural Experiment Station

B. S., Maine, 1880; M. S., 1883

LUCIUS HERBERT MERRILL

178 Main Street

Professor of Biological and Agricultural Chemistry

B. S., Maine, 1883; Sc. D., 1908

JAMES NORRIS HART

130 College Street

Professor of Mathematics and Astronomy

DEAN OF THE UNIVERSITY

B. C. E., Maine, 1885; C. E., 1890; M. S., Chicago, 1897; Sc. D.,
Maine, 1908

FREMONT LINCOLN RUSSELL

124 Main Street

Professor of Bacteriology and Veterinary Science

B. S. Maine, 1885; V. S., New York College of Veterinary Sur-
geons, 1886

JAMES STACY STEVENS

175 Main Street

Professor of Physics

DEAN OF THE COLLEGE OF ARTS AND SCIENCES

B. S., Rochester, 1885; M. S., 1888, and Syracuse, 1889; LL. D., Roch-
ester, 1907

CHARLES DAYTON WOODS

133 Main Street

DIRECTOR OF THE AGRICULTURAL EXPERIMENT STATION

B. S., Wesleyan, 1880; Sc. D., Maine, 1905

*Arranged in groups in order of seniority of appointment

FACULTY

- JOHN HOMER HUDDILSTON 193 Main Street
Professor of Greek and Classical Archeology
 A. B., Baldwin, 1890, and Harvard, 1893; Ph. D., Munich, 1897
- WILLIAM EMANUEL WALZ 8 Fifth Street, Bangor
Professor of Law
 DEAN OF THE COLLEGE OF LAW
 A. B., Northwestern College, 1880; A. M., 1882; LL. B., Harvard, 1889; Litt. D., Bowdoin, 1911
- RALPH KNEELAND JONES 57 Bennoch Street
Librarian
 B. S., Maine, 1886
- JACOB BERNARD SEGALL 7 Mill Street
Professor of French
 B. S. and B. L., Yassy, 1884; Ph. D., Columbia, 1893
- HAROLD SHERBURNE BOARDMAN 68 Main Street
Professor and Head of the Department of Civil Engineering
 DEAN OF THE COLLEGE OF TECHNOLOGY
 B. C. E., Maine, 1895; C. E., 1898
- GEORGE DAVIS CHASE 143 Main Street
Professor of Latin
 A. B., Harvard, 1889; A. M., 1895; Ph. D., 1897
- CAROLINE COLVIN University Inn
Professor of History
 A. B., Indiana, 1893; Ph. D., University of Pennsylvania, 1901
- WARNER JACKSON MORSE 11 North Main Street
Plant Pathologist in the Agricultural Experiment Station
 B. S., Vermont, 1898; M. S., 1903; Ph. D., Wisconsin, 1912
- CHARLES PARTRIDGE WESTON 356 College Street
Professor of Mechanics and Drawing
 B. C. E., Maine, 1896; C. E., 1899; A. M., Columbia, 1902
- RAYMOND PEARL 166 College Street
Biologist in the Agricultural Experiment Station
 A. B., Dartmouth, 1899; Ph. D., Michigan, 1902
- CHARLES BARTO BROWN 129 Main Street
Professor of Civil Engineering
 Ph. B., Yale, 1894; C. E., 1896
- WALLACE CRAIG 32 College Street
Professor of Philosophy
 B. S., Illinois, 1898; M. S., 1901; Ph. D., Chicago, 1908

UNIVERSITY OF MAINE

- ROLAND PALMER GRAY 162 College Street
Professor and Head of the Department of English
 A. B., Columbia, 1893; M. A., Rochester, 1908
- GARRETT WILLIAM THOMPSON 180 Main Street
Professor of German
 A. B., Amherst, 1888; A. M., 1891; Ph. D., University of Pennsylvania, 1907
- GUY ANDREW THOMPSON 356 College Street
Professor of English Literature
 A. B., Illinois, 1898, and Harvard, 1900; A. M., 1901; Ph. D., Chicago, 1912
- WINDSOR PRATT DAGGETT 36 College Street
Professor of Public Speaking
 Ph. B., Brown, 1902
- MINTIN ASBURY CHRYSLER 370 College Street
Professor of Biology
 B. A., Toronto, 1894; Ph. D., Chicago, 1904
- JOHN MANVERS BRISCOE 380 College Street
Professor of Forestry
 M. F., Yale, 1909
- LEON STEPHEN MERRILL Campus
Director of Agricultural Extension Service
 DEAN OF THE COLLEGE OF AGRICULTURE
 M. D., Bowdoin, 1889
- GEORGE EDWARD SIMMONS 4 Gilbert Street
Professor of Agronomy
 B. S., Ohio Northern, 1902; M. S., 1905; B. Sc., Ohio State, 1909
- GEORGE WARE STEPHENS 158 College Street
Professor of Economics and Sociology
 Ph. B., Iowa Wesleyan, 1904; M. A., Wisconsin, 1907; Ph. D., 1911
- WILLIAM EDWARD BARROWS, Jr. 36 Myrtle Street
Professor of Electrical Engineering
 B. S., Maine, 1902; E. E., 1908
- EDGAR MYRICK SIMPSON 31 Highland Avenue, Bangor
Professor of Law
 A. B., Bowdoin, 1894
- BLISS S BROWN 42 Forest Avenue
Professor of Horticulture
 B. S., Michigan Agricultural College, 1903; M. S., California, 1911

FACULTY

- EDITH MARION PATCH College Street
Entomologist in the Agricultural Experiment Station
 B. S., Minnesota, 1901; M. S., Maine, 1910; Ph. D., Cornell, 1911
- FRANK MACY SURFACE 142 Bennoch Street
Biologist in the Agricultural Experiment Station
 A. B., Ohio State, 1914; A. M., 1915; Ph. D., University of Pennsylvania, 1907
- LAMERT SEYMOUR CORBETT Campus
Professor of Animal Industry
 B. Sc., Massachusetts Agricultural College, 1909; M. S., State University of Kentucky, 1913
- FRANK SHELDON CLARK 33 Bennoch Street
Professor of Military Science and Tactics
 B. S., Norwich, 1909; Captain, Coast Artillery Corps, U. S. Army
- ANDREW PAUL RAGGIO 180 Main Street
Professor of Spanish and Italian
 B. A., Texas, 1896; A. M., Harvard, 1902; Ph. D., 1904
- FRANCES ROWLAND FREEMAN University Inn
Professor of Home Economics
 B. Sc., Ohio State, 1910; M. Sc., 1911
- ROY FRANKLIN RICHARDSON 47 Mill Street
Professor of Education
 A. B., Kansas State Normal College, 1909; Ph. D., Clark, 1913
- WILLIAM JORDAN SWEETSER 184 Main Street
Professor of Mechanical Engineering
 S. B., Massachusetts Institute of Technology, 1901
- HERMAN HERBERT HANSON 80 Forest Avenue
Chemist in the Agricultural Experiment Station
 B. S., Pennsylvania State College, 1902; M. S., Maine, 1906
- CHARLES WILSON EASLEY 41 Main Street
Professor of Chemistry
 A. B., Dickinson, 1897; A. M., 1890; Ph. D., Clark, 1908
- WILLIAM AMBROSE JARRETT 36 Forest Avenue
Professor of Pharmacy
 Pharm. D., Massachusetts College of Pharmacy, 1913
- CLARENCE WEBSTER PEABODY 225 Cedar Street, Bangor
Professor of Law
 A. B., Bowdoin, 1893; LL. B., Harvard, 1896

UNIVERSITY OF MAINE

WILLIAM JAMES YOUNG	University Inn
<i>Professor of Physical Culture</i>	
DIRECTOR OF ATHLETICS	
B. P. E., International Y. M. C. A. College, 1907; M. D., University of Pennsylvania, 1911	
<hr/>	
LEON ELMER WOODMAN	61 Bennoch Street
<i>Associate Professor of Physics</i>	
A. B., Dartmouth, 1899; A. M., 1902; Ph. D., Columbia, 1910	
JAMES ADRIAN GANNETT	167 Main Street
<i>Registrar</i>	
B. S., Maine, 1908	
*ALBERT THEODORE CHILDS	
<i>Associate Professor of Electrical Engineering</i>	
B. S., Worcester Polytechnic Institute, 1906; E. E., 1908	
HARLEY RICHARD WILLARD	56 Main Street
<i>Associate Professor of Mathematics</i>	
A. B. Dartmouth, 1899; A. M., 1902, and Yale, 1910; Ph. D., 1912	
ARCHER LEWIS GROVER	22 Myrtle Street
<i>Associate Professor of Drawing</i>	
B. M. E., Maine, 1889; B. S., 1902	
ALICE MIDDLETON BORING	33 Mill Street
<i>Associate Professor of Zoology</i>	
A. B., Bryn Mawr, 1904; A. M., 1905; Ph. D., 1910	
JULIUS ERNEST KAULFUSS	11 Main Street
<i>Associate Professor of Civil Engineering</i>	
B. S., Wisconsin, 1908	
JAMES MCCLUER MATTHEWS	55 North Main Street
<i>Associate Professor of Economics and Sociology</i>	
A. B., Park, 1903; A. M., Harvard, 1913	
DANIEL WILSON PEARCE	31 Mill Street
<i>Associate Professor of Education</i>	
A. B., Indiana, 1910; A. M., 1912	
ROBERT RUTHERFORD DRUMMOND	104 North Main Street
<i>Associate Professor of German</i>	
B. S., Maine, 1905; Ph. D., University of Pennsylvania, 1909	
CARL HENRY LEKBERG	38 Forest Avenue
<i>Associate Professor of Mechanical Engineering</i>	
B. S., Maine, 1907	

*Absent on leave, without pay, September 1, 1916, to September 1, 1917

FACULTY

- EMBERT HIRAM SPRAGUE** University Inn
Associate Professor of Civil Engineering
 B. S., Dartmouth, 1900
- CARLETON WHIDDEN EATON** 33 Mill Street
Associate Professor of Forestry
 A. B., Bowdoin, 1910; M. F., Yale, 1912
- HAROLD SCOTT OSLER** 56 Forest Avenue
Associate Professor of Agronomy
 B. S., Muskingum, 1909, and Michigan Agricultural College, 1913
- TRUMAN LEIGH HAMLIN** Stillwater
Assistant Professor of Mathematics
 A. B., Western Reserve, 1899; M. A., Missouri, 1902
- BARTLETT BROOKS** 16 North Park, Bangor
Assistant Professor of Law
 A. B., Harvard, 1899; LL. B., 1902
- HARRY NEWTON CONSER** 15 Oak Street
Assistant Professor of Botany
 B. S., Central Pennsylvania College, 1883; M. S., 1886; A. M., Harvard, 1908
- LLOYD MEEKS BURGHART** 35 Forest Avenue
Assistant Professor of Chemistry
 A. B., Lake Forest, 1906; M. A., Maine, 1911
- ALBERT GUY DURGIN** 8 Middle Street
Assistant Professor of Chemistry
 B. S., Maine, 1908; M. S., 1909
- ALPHEUS CROSBY LYON** 119 Bennoch Sreet
Assistant Professor of Civil Engineering
 B. S., Maine, 1902; S. B., Massachusetts Institute of Technology, 1904; C. E., Maine, 1913
- LOWELL JACOB REED** 36 College Street
Assistant Professor of Mathematics
 B. S., Maine, 1907; M. S., 1912; Ph. D., University of Pennsylvania, 1915
- HARRY WOODBURY SMITH** 384 College Street
Assistant Professor of Bacteriology
 B. S., Maine, 1909
- RALPH MAYNARD HOLMES** 26 Mill Street
Assistant Professor of Physics
 B. A., Maine, 1911; M. A., Wesleyan, 1913

UNIVERSITY OF MAINE

- JOSEPH NEWELL STEPHENSON 4 Gilbert Street
Assistant Professor of Chemistry
 S. B., Massachusetts Institute of Technology, 1909; M. S., Rose Polytechnic Institute, 1911
 BURNETT OLCOTT McANNEY University Inn
Assistant Professor of English
 A. B., Dickinson, 1913; B. Lit., Columbia, 1914
 FRANCES MARIA WHITCOMB University Inn
Assistant Professor of Home Economics
 S. B., Simmons, 1910
 FRANÇOIS JOSEPH KUENY University Inn
Assistant Professor of French
 B. ès L., University of Paris, 1897; L. ès L., Besançon, 1901
 JOHN WILLIAM HARVEY 36 Myrtle Street
Assistant Professor of Electrical Engineering
 B. S., Oklahoma Agricultural and Mechanical College, 1913
 HERBERT HANNIBAL HILLEGAS 67 Main Street
Assistant Professor of Electrical Engineering
 B. S., Delaware, 1914
 JOHN WILLARD KIMBALL 36 Myrtle Street
Assistant Professor of Chemistry
 B. S., Colby, 1912; Ph. D., Johns Hopkins, 1916
 WILLIAM SAMUEL KREBS 13 Pond Street
Assistant Professor of Economics and Sociology
 A. B., Illinois, 1913; M. A., Wisconsin, 1914
 WARREN WHITTEMORE REED 136 College Street
Assistant Professor of English
 A. B. Harvard, 1907; A. M., 1913
 HERMAN PITTEE SWEETSER 32 Cottage Street
Assistant Professor of Horticulture
 B. S., Maine, 1910
 DeWITT McCLURE TAYLOR 82 Main Street
Assistant Professor of Mechanical Engineering
 S. B., Massachusetts Institute of Technology, 1906
 ADELBERT WELLS SPRAGUE 217 Union Street, Bangor
Director of Music
 B. S., Maine, 1905; A. M., Harvard, 1907
 HAROLD JOSEPH SHAW Bath
County Agricultural Agent, Sagadahoc County

FACULTY

CLARENCE WALLACE BARBER	255 State Street, Portland
<i>County Agricultural Agent, Cumberland County</i>	
B. S., Maine, 1912; M. S., 1914	
CLARENCE ALBERT DAY	Machias
<i>County Agricultural Agent, Washington County</i>	
ARTHUR LOWELL DEERING	34 School Street, Augusta
<i>County Agricultural Agent, Kennebec County</i>	
B. S., Maine, 1912	
MAURICE DANIEL JONES	169 Main Street
<i>County Agricultural Agent, Penobscot County</i>	
B. S., Maine, 1912	
GEORGE ALBERT YEATON	Norway
<i>County Agricultural Agent, Oxford County</i>	
ALBERT KINSMAN GARDNER	Farmington
<i>County Agricultural Agent, Franklin County</i>	
B. S., Maine, 1910	
HAROLD HARLAN NASH	Sanford
<i>County Agricultural Agent, York County</i>	
GEORGE NEWTON WORDEN	Ellsworth
<i>County Agricultural Agent, Hancock County</i>	
B. S., Maine, 1913	
JOSEPH HENRY BODWELL	Foxcroft
<i>County Agricultural Agent, Piscataquis County</i>	
B. S., Maine, 1915	
ROGER LOCKE GOWELL	Warren
<i>County Agricultural Agent, Knox County</i>	
B. S., Maine, 1916	
ROBERT MARK STILES	Hartland
<i>County Agricultural Agent, Somerset County</i>	
WILLIAM COLLINS MONAHAN	40 Forest Avenue
<i>Extension Instructor in Poultry Work</i>	
B. S., Maine, 1914	
RALPH PIKE MITCHELL	11 Pond Street
<i>State Leader Boys' Agricultural Club Work</i>	
PAUL WHEELER MONOHON	33 Forest Avenue
<i>Assistant County Agent Leader</i>	
B. S., Maine, 1914	
CATHARINE NORTON PLATTS	University Inn
<i>Extension Instructor in Home Economics</i>	
S. B., Simmons College, 1911	

UNIVERSITY OF MAINE

KATHRYN TAYLOR GORDON	13 Pine Street:
<i>Extension Instructor in Home Economics</i>	
S. B., Simmons, 1915	
MARY ISABEL HASKELL	University Inn
<i>State Leader Girls' Agricultural Club Work</i>	
S. B., Simmons 1910	
NEIL CARPENTER SHERWOOD	308 Hannibal Hamlin Hall
<i>Extension Instructor in Dairying</i>	
B. S., Maine, 1914; M. S., 1916	
PETER GILLESPIE MCKINLAY	23 Capital Street, Augusta
<i>Instructor in Extension Work in Technology</i>	
B. S., Nevada, 1914	
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EVERETT WILLARD DAVEE	46 College Street
<i>Instructor in Wood and Iron Work</i>	
CHARLES JENKINS CARTER	80 Forest Avenue
<i>Instructor in Machine Tool Work</i>	
MAYNIE ROSE CURTIS	33 Mill Street
<i>Assistant Biologist in the Agricultural Experiment Station</i>	
A. B., Michigan, 1905; A. M., 1908; Ph. D., 1913	
*WALTER ELWOOD FARNHAM	54 Forest Avenue
<i>Instructor in Drawing</i>	
ERNEST CONANT CHESWELL	College Street
<i>Instructor in Electrical Engineering</i>	
ROYDON LINDSAY HAMMOND	109 Main Street
<i>Seed Analyst and Photographer in the Agricultural Experiment Station</i>	
†DOROTHEA BEACH	
<i>Instructor in Home Economics</i>	
JOHN RICE MINER	5 Pond Street
<i>Computer in the Agricultural Experiment Station</i>	
A. B., University of Michigan, 1913	
JACOB ZINN	306 Hanibal Hamlin Hall
<i>Assistant Biologist in the Agricultural Experiment Station</i>	
Agr. D., Hochschule für Bodenkultur, 1914	
RAYMOND FLOYD	University Inn
<i>Instructor in German</i>	
B. A., University of Maine, 1913	

*On half time leave of absence from September 1, 1916, to September 1, 1917, as instructor in Extension Work in Technology

†Absent on leave, without pay, September 1, 1916, to September 1, 1917

FACULTY

ARTHUR WHITING LEIGHTON	University Inn
<i>Instructor in Drawing</i>	
SIDNEY WINFIELD PATTERSON	2 Forest Avenue
<i>Instructor in Biological and Agricultural Chemistry</i>	
B. S., Maine 1914; M. S., 1916	
GLEN BLAINE RAMSEY	University Inn
<i>Assistant Plant Pathologist in the Agricultural Experiment Station</i>	
A. B., Indiana, 1913; A. M., 1914	
HARRY GILBERT MITCHELL	105 Main Street
<i>Instructor in Chemistry</i>	
B. S., Dartmouth, 1910; A. M., Columbia, 1914	
ROSCOE WOODS	29 Main Street
<i>Instructor in Mathematics</i>	
A. B., Georgetown, 1914; A. M., Maine, 1916	
HARRY CHAMBERLAIN BROWN	61 Bennoch Street
<i>Instructor in Physics</i>	
B. S., Brown, 1913	
CHESTER HAMLIN GOLDSMITH	32 College Street
<i>Instructor in Chemistry</i>	
B. S., Maine, 1915	
HELEN ANN KNIGHT	University Inn
<i>Instructor in Home Economics</i>	
Ph. B., Chicago, 1915	
ALTON WILLARD RICHARDSON	Stillwater Avenue, Old Town
<i>Instructor in Animal Industry</i>	
B. S., Maine, 1906	
MYER SEGAL	85 Main Street
<i>Instructor in German</i>	
A. B., Bates, 1909; A. M., Columbia, 1910	
THOMAS WILLIAM SHEEHAN	36 Forest Avenue
<i>Instructor in English</i>	
A. B., Clark, 1909; A. M., Pennsylvania State College, 1915	
J FRED THOMAS	33 Forest Avenue
<i>Instructor in Animal Industry</i>	
B. S., Iowa State College, 1915	
STANLEY BEN SINK	42 Forest Avenue
<i>Instructor in Agronomy</i>	
B. Sc., Ohio State, 1915	
ALBERT AMES WHITMORE	University Inn
<i>Instructor in History</i>	
B. S., Maine, 1906	

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- HENRY VIGOR CRANSTON 106 Hanibal Hamlin Hall
Instructor in Public Speaking
 B. A., Pennsylvania State, 1915
- MARGARET JUNE KELLEY 52 Essex Street, Bangor
Instructor in German
 B. A., Maine 1912; A. M., Maine, 1916
- RICHARD THEODORE MULLER 108 No. Main Street
Instructor in Horticulture
 B. S., Cornell, 1916
- ABRAHAM STRAUSS University Inn
Instructor in Botany
 B. Sc., Massachusetts Agricultural College, 1916
- JOHN LEONARD ROBERTS 124 Main Street
Instructor in Mathematics
 A. B., Bowdoin, 1911
- JOHN HOWARD PERRY Campus
Assistant Chemist in the Agricultural Experiment Station
- WILLIAM RAYMOND RICH 40 Forest Avenue
Assistant Chemist in the Agricultural Experiment Station
 B. S., Maine, 1916
- WALTER WAITSTILL WEBBER 108 Hannibal Hamlin Hall
Assistant Chemist in the Agricultural Experiment Station
 B. S., Maine, 1916
- RALPH IRWIN ALEXANDER 7 Forest Avenue
Instructor in Mechanical Engineering
 B. S., Rhode Island, 1913
- PAUL HENRY AXTELL 13 Pine Street
Instructor in English
 A. B., Colgate, 1916
- EDWIN KNIGHT BUTTOLPH 55 Grove St., Bangor
Instructor in Spanish
 A. B., Hobart, 1881; A. M., 1885
- RAYMOND VON DERSMITH GABLE 62 High Street, Bangor
Instructor in Spanish and Italian
 A. B., Johns Hopkins, 1910; A. M., Harvard, 1912
- JOHN DOUGLASS GLANCY 10 Mill Street
Instructor in Pharmacy
 Pharm. D., Massachusetts College of Pharmacy, 1913; Ph. C., 1914
- CLYDE THOMAS GRAHAM 36 College Street
Instructor in Civil Engineering
 B. Sc., Nebraska, 1911

FACULTY

EDWARD KNEVALS HULL	University Inn
<i>Instructor in Drawing</i>	
ROBERT ORLAND HUTCHINSON	61 Bennoch Street
<i>Instructor in Physics</i>	
A. B., Indiana, 1914	
WILLIAM TIMOTHY McCARTY	7 Bennoch Street
<i>Instructor in Physical Culture</i>	
V. S., Ohio State, 1909	
ESTHER MCGINNIS	University Inn
<i>Instructor in Home Economics</i>	
B. Sc., Ohio State, 1915	
MARSHALL MILLER	33 Bennoch Street
<i>Instructor in Chemistry</i>	
B. S., University of Pennsylvania, 1913; Ch. E., 1916	
ANTON ADOLPH RAVEN, JR.	University Inn
<i>Instructor in English</i>	
A. B., Rutgers, 1916	
CHARLES BUNSEN SHAW	33 Bennoch Street
<i>Instructor in English</i>	
A. B., Clark, 1914; A. M., 1915	
NORMAN CLIFFORD SMALL	108 Hannibal Hamlin Hall
<i>Instructor in Civil Engineering</i>	
B. S., Maine, 1916	
LESTER FRANK WEEKS	104 North Main Street
<i>Instructor in Chemistry</i>	
B. S., Colby, 1915	
NORBERT WIENER	55 Bennoch Street
<i>Instructor in Mathematics</i>	
A. B., Tufts, 1909; Ph. D., Harvard, 1913	
OSCAR MILTON WILBUR	Campus
<i>Instructor in Animal Industry</i>	
B. S., Maine, 1915	
PERCY BARNETTE WILTBERGER	10 Mill Street
<i>Instructor in Entomology</i>	
B. Sc., Ohio State, 1915; M. Sc., 1916	
MAY ELLA TAFT	33 Mill Street
<i>Cataloger in the Library</i>	
B. A., Wellesley, 1908; S. B., Simmons, 1912	
GENEVA ALICE REED	College Street
B. A., Maine, 1910	
<i>Assistant in the Library</i>	

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AVA HARRIET CHADBOURNE	32 College Street
<i>Assistant in Education</i>	
B. A., Maine, 1915	
ETHEL GERTRUDE WIGMORE	33 Bennoch Street
<i>Assistant in the Library</i>	
A. B., Acadia, 1914	
DONALD VINCE ATWATER	7 Pleasant Street
<i>Assistant in Biology</i>	
B. S., Maine, 1916	
CHARLES HARRY WHITE	48 Forest Avenue
<i>Scientific Aid in the Agricultural Experiment Station</i>	
Ph. C., Maine, 1897	
WALTER EDSON CURTIS	Stillwater
<i>Scientific Aid in the Agricultural Experiment Station</i>	
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LUCILIUS ALONZO EMERY	Ellsworth
<i>Lecturer on Roman and Probate Law</i>	
A. B., Bowdoin College, 1861; A. M., 1864; LL. D., 1898	
LOUIS CARVER SOUTHARD	Boston
<i>Lecturer on Medico-Legal Relations</i>	
B. S., Maine, 1875; M. S., 1892; LL. D., 1904	
EDWARD HARWARD BLAKE	107 Court Street, Bangor
<i>Lecturer on Admiralty</i>	
LL. B., Albany Law School, 1878; LL. D., Maine, 1910	
ISAAC WATSON DYER	Portland
<i>Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations</i>	
A. B., Bowdoin, 1878	
JOHN ROGERS MASON	48 Madison Street, Bangor
<i>Lecturer in Bankruptcy Law</i>	
A. B., Harvard, 1869; A. M., LL. B., 1872	
WILLIAM BRIDGHAM PEIRCE	25 Parkview Avenue, Bangor
<i>Lecturer on Common Law Pleading and Maine Practice</i>	
B. M. E., Maine, 1890	
HENRY BURT MONTAGUE	Southbridge, Mass.
<i>Lecturer on Practice and History of Law</i>	
LL. B., Cornell, 1895; LL. M., Maine, 1910	
LAWRENCE VIVIAN JONES	267 Pine Street, Bangor
<i>Lecturer on Forestry Law</i>	
LL. B., Maine, 1910	

FACULTY

COMMITTEES OF THE FACULTY

ADMINISTRATION—The President and Deans

ATHLETICS—Young, Barrows, Gannett, Kaulfuss, L. S. Merrill, Peabody,
E. H. Sprague

CHAPEL—Barrows, Matthews, Stephenson, H. P. Sweetser, Woodman

EMPLOYMENT—Gannett, Durgin, Simmons, Cranston

FITTING SCHOOLS:—Richardson, Chase, Easley, Hart, L. S. Merrill,
Pearce, Stephens, Weston

GRADUATE STUDY—Chase, Colvin, Craig, Easley, L. H. Merrill, Morse,
Pearl, Raggio, Segall, Walz, Willard, Woodman

HEALTH—Young, Boring, Freeman, Jarrett, Lyon, Russell

HONORS—Chrysler, Briscoe, B. S. Brown, Holmes, Smith, Walz

LIBRARY—R. K. Jones, Colvin, Pearce, Russell, W. J. Sweetser, G. A.
Thompson, Willard

RULES—Stephens, Conser, Drummond, Gannett, Huddilston, Simmons

SCHEDULE—Weston, Gannett, Hamlin, Reed, the Deans

SOCIAL AFFAIRS—Huddilston, Briscoe, Colvin, Corbett, Farnham, Free-
man, Kueny

STUDENT ACTIVITIES—(NON-ATHLETIC) C. B. Brown, Chairman

Sub-Committees

Dramatics—Daggett, C. B. Brown, Kaulfuss

Musical—A. W. Sprague, G. W. Thompson, Drummond

Public Speaking—Daggett, Raggio, G. A. Thompson

Student Publications—Gray, Brooks, Lekberg, McAnney, L.
H. Merrill

Miscellaneous—C. B. Brown, Childs, Craig

UNIVERSITY PUBLICATIONS—Stevens, Boardman, R. K. Jones, L. S. Mer-
rill, Woods

GENERAL INFORMATION

HISTORY

The University of Maine is a part of the public educational system of the State. It was established as a result of the Morrill Act approved by President Lincoln, July 2, 1862. The State of Maine accepted the conditions of this act in 1863. In 1865 the State created a corporation to administer the affairs of the college. The original name of the institution was the State College of Agriculture and the Mechanical Arts. The name was changed to the University of Maine in 1897.

The first Board of Trustees was composed of 16 members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Board members. At the present time seven members of the Board are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association.

The institution opened September 21, 1868, with a class of 12 members and a faculty of two teachers. By 1871 four curricula had been arranged,—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences.

The Maine Agricultural Experiment Station was established as a division of the University by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station which had been established in 1885.

The College of Law was opened in 1898. It is an integral part of the institution but occupies quarters at the corner of Union and Second streets in Bangor.

BUILDINGS

Graduate instruction has been given by various departments for many years. The first Master's degree was conferred in 1881. There is no provision for graduate work in advance of that required for the Master's degrees.

Beginning with 1902, a Summer Term has been held annually, first of five weeks but now of six. It is designed for teachers in secondary schools and for college students who desire to take advantage of its opportunities, and it also gives some courses for those who seek an opportunity to make up entrance credits. The departments usually offering courses are Chemistry, Economics and Sociology, Education, English, French, German, History, Latin, Mathematics and Astronomy, Physics, and Spanish and Italian.

The university is coeducational, women having been admitted since 1872, in compliance with special legal enactment.

LOCATION

The university, with the exception of the College of Law and three farms, is located in Orono, an attractive town of 3,500 population, with good schools and four churches. The campus of 370 acres borders the Stillwater River, a branch of the Penobscot, and is of great beauty. The College of Law is in Bangor.

Orono is on the main line of the Maine Central Railroad, eight miles east of Bangor, half way between Kittery, the most southerly town in the State on the Maine Central Railroad, and Fort Kent, the most northerly town in the State on the Bangor and Aroostook Railroad. It is not far from the center of population of the State. In addition to steam railroad connection, there is half-hour trolley service to Bangor, nine miles, and Old Town, three miles from the campus. Bangor is the third city of the State in population and an important business center. The location of the university gives students who care to do so an opportunity to take advantage of its social, religious, and other advantages. Old Town is a prosperous manufacturing city with about 7,000 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

BALENTINE HALL.—The Legislature of 1913 made an appropriation for the erection of one wing of a women's dormitory. This was completed September 1, 1914. The Legislature of 1915 made an appropria-

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tion for completing the building. The name was given in honor of Elizabeth Abbott Balentine, Secretary and Registrar of the University from 1895 to 1913. It contains accommodations for 110 women. The entire building was ready for occupancy September 1, 1916.

HANNIBAL HAMLIN HALL.—This is a men's dormitory completed in 1911. It contains four stories and a concrete basement. It was named for the Honorable Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees. It will accommodate 156 students.

MOUNT VERNON HOUSE.—This is a wooden building, remodeled in 1898, and is a dormitory for women. It is a three story building and will accommodate 36 students.

OAK HALL.—This building was named for the Honorable Lyndon Oak, of Garland, a long time member and president of the Board of Trustees. It is a four story building erected in 1871 and has 48 rooms for students.

UNIVERSITY INN.—This is a wooden building, located in the village of Orono, which the University has leased for a term of years. It is occupied chiefly by instructors and has accommodations for fifty persons.

ALUMNI HALL.—This building was erected in 1900 and was given its name because funds required for its erection were subscribed by the alumni of the university. It contains the gymnasium, chapel, and administrative offices.

AUBERT HALL.—This is a four story building including a high basement. It was named in honor of the late Alfred Bellamy Aubert, Professor of Chemistry from 1874 to 1910. It is used by the Departments of Chemistry and Physics.

COBURN HALL.—This building contains the Department of Biology and the museum and has recitation rooms for the Departments of History and Economics and Sociology. It was named for ex-Governor Abner Coburn, of Skowhegan, a former president of the Board of Trustees, and the chief individual benefactor of the University.

ESTABROOKE HALL.—This building is used for the Departments of English and Public Speaking, and was named for the late Horace M. Estabrooke, Professor of English from 1891 to 1908. It contains four recitation rooms, rooms for consultation purposes, and offices for the members of the departments.

BUILDINGS

FERNALD HALL.—This is the oldest building on the campus and was erected for the Department of Chemistry. It now contains the Departments of French, Spanish and Italian, Education, Mathematics, and the University Store. It was named in honor of ex-President Merritt C. Fernald.

HOLMES HALL.—This building contains the offices and laboratories of the Maine Agricultural Experiment Station. It is a two story building in addition to a basement. It was named for Dr. Ezekiel Holmes, of Winthrop.

LIBRARY BUILDING.—The Library Building is of stone, two stories above a basement and surmounted by a dome. For its erection and furnishing, Mr. Andrew Carnegie gave \$55,000, and the Hallowell Granite Works furnished the granite at a price that was equivalent to a gift of several thousand dollars. The stacks, which are in the rear of the main building, contain shelf room for 60,000 volumes.

LORD HALL.—This building was erected for the Departments of Electrical Engineering and Mechanical Engineering. It is two stories in height and contains recitation rooms, laboratories, shops, drawing rooms, and offices for the members of these departments. It was named for the Honorable Henry Lord, of Bangor, a former President of the Board of Trustees.

STEWART HALL.—This building is situated in Bangor and contains offices and recitation rooms of the College of Law. It is three stories in height and was named for Honorable D. D. Stewart, of St. Albans, Maine, who has been a generous benefactor of this college.

WINGATE HALL.—This building contains three stories and a basement. It is used by the Departments of Civil Engineering and Mechanics and Drawing, and includes recitation rooms and offices for the Departments of Latin and Philosophy.

WINSLOW HALL.—This is a four story building including the basement. It contains offices, laboratories, and recitation rooms for the various departments of the College of Agriculture. It was named in honor of Honorable Edward B. Winslow, of Portland, a former President of the Board of Trustees. In the rear of this building is located the stock judging pavilion, which is an octagonal structure, having a seating capacity of 600.

DAIRY BUILDING.—This building contains various rooms appropriate for the Department of Dairy Husbandry. It is supplied with the neces-

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sary appliances for teaching methods of handling milk, cream, butter, and cheese.

FARM BUILDINGS.—These comprise two large dairy barns, a horse barn, a hay storage barn, two tool houses, and a piggery. The farm of the university is composed of parcels of land aggregating 473 acres, of which 120 acres are under cultivation.

HORTICULTURAL BUILDING.—This includes a set of greenhouses east of Holmes Hall and furnishes opportunity for demonstration of the practical culture of flowers and vegetables under glass.

INFIRMARY.—This building is used in caring for cases of infectious diseases that may appear among the students. It is located in the rear of Hannibal Hamlin Hall.

OBSERVATORY.—The astronomical observatory stands on a slight elevation at the east of Alumni Hall. It contains equipment for work in descriptive and practical astronomy

POULTRY PLANT.—The part of the plant that belongs to the College of Agriculture consists of a two and one half story building to which are attached brooder houses. The plant which belongs to the Agricultural Experiment Station contains an incubator house with tenement above, two poultry houses, a two story house, a building containing a hospital for hens, and rooms for digestion experiments.

ATHLETIC FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northern end of the campus. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, baseball, and track and field athletics. It contains a grandstand with a seating capacity of 2,100. There is also an out-door board running track 390 feet long by 12 feet wide.

CENTRAL HEATING PLANT.—The Central Heating Plant is located on low ground so that the buildings drain by gravity to the plant. It contains four 150 h. p. boilers, two Worthington duplex return pumps, and scales for weighing coal.

FRATERNITY HOUSES.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Phi Gamma Delta, Phi Kappa Sigma, Sigma Alpha Epsilon, Theta Chi, Sigma Nu, and Phi Epsilon Pi, and the Phi

LIBRARIES

Eta Kappa Society have houses on the campus; the local chapter of Lambda Chi Alpha owns a house adjoining the campus on College Street, and the local chapters of Alpha Tau Omega and Sigma Chi own houses on North Main Street. These houses accommodate from 25 to 35 students each.

POWER HOUSE.—This building is located north of Alumni Hall and contains five boilers, three engines, and two dynamos with operating switchboard.

PRINT SHOP.—The University Press is located in a wooden building north of Aubert Hall. It contains a modern outfit for the printing required by the university.

OTHER BUILDINGS.—In addition to the buildings already described, there are several others devoted to various purposes. Among these are the President's house and five residences occupied by members of the faculty.

THE LIBRARIES

The university libraries contain (June 30, 1916) about 59,000 volumes, of which about 49,500 are in the general library, 4,500 in the Agricultural Experiment Station Library, and 5,000 in the law library. In addition, there are deposited in the general library, where they are available for circulation, over seven hundred volumes from the mathematical library of President R. J. Aley, over five hundred volumes, relating chiefly to English literature and philology, from the library of the late Professor H. M. Estabrooke, and over a hundred volumes belonging to the Christian Association and the Menorah Society. The growth for the last ten years has averaged over three thousand volumes annually.

The general library is a good working collection. It has been acquired largely by purchase, the books bought having been selected by heads of departments to meet the needs of students and faculty. It includes a large and useful collection of public documents of the United States and of the State of Maine and is a designated depository for government publications. The most valuable gift received from an individual is the horticultural library of the late Professor W. M. Munson, bequeathed by him to the university. The general library is open daily during the academic year from 8.00 a. m. to 5.30 p. m. and from 7.00 to 9.30 p. m., Saturday evenings, Sundays, and holidays excepted. It is open Sundays from 2.30 to 5.30 p. m., and holidays from 8.00 a. m. to 12.00 m.

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About 250 general, literary, scientific, and technical periodicals, American and foreign, are subscribed for by the general library and over 150 others are received as gifts. The current numbers of most of these are on file in the periodical room on the first floor of the library building, but the daily and weekly newspapers are in a newspaper room in the basement, and the technical engineering journals are in the office of the Dean of the College of Technology where they are available for general use.

The Agricultural Experiment Station Library, with the exception of volumes needed for almost constant reference by members of the Station staff, is shelved with the general library and is available for consultation but not for general circulation. It contains many valuable sets of scientific journals. About 75 periodicals are subscribed for, and a considerable number of others are received in exchange for Station publications, current volumes being on file in Holmes Hall.

The law library occupies rooms in Stewart Hall and is for reference only. The former library was burned in the Bangor fire of 1911 and the present carefully selected collection has been gathered since that time. It includes complete sets of the reports of the United States and of all the New England and some other states, the English Reports and English Ruling Cases, and all the important reports and encyclopedias, together with an excellent collection of text books. The important law journals are received currently. The law library is open thruout the academic year during the same hours as the general library.

The libraries are classified by the Dewey decimal system, modified for certain classes. A card catalog in the general library shows books by author, subject, and title, and includes all volumes in the general, Agricultural Experiment Station, and law libraries, and also those in the Aley, Estabrooke, Christian Association, and Menorah Society collection, but does not include cards for the publications of the United States Department of Agriculture and the agricultural experiment stations of the various states, as these are filed in a special catalog in the agriculture seminary. A separate catalog of the law library is maintained in addition in Stewart Hall.

About nine hundred volumes, withdrawn from the general library, are kept in Aubert Hall as a reference library for the Department of Physics, subject to recall at any time if needed for other use. Other departments borrow books required for current needs, subject to recall if needed elsewhere.

MUSEUM

Students may borrow three volumes at a time from the general library, to be retained three weeks; if more are desired or if need exists to retain them for a longer period, application should be made to the Librarian. A fine of two cents a day is collected for overdue books. Reference books do not circulate and special regulations are made for books reserved at the request of instructors. Unbound periodicals may be borrowed over night upon application to the desk assistant. Members of the faculty may borrow any reasonable number of volumes without time limit, but all books must be returned nine days before Commencement. Books will be loaned to other libraries, to schools, and to residents of the State when it can be done without interference with local needs, the borrower paying transportation charges in both directions.

MUSEUM OF NATURAL HISTORY

MINTIN ASBURY CHRYSLER

Curator of the Botanical and Zoological Collections

LUCIUS HERBERT MERRILL

Curator of the Geological Collections

The museum occupies the wing of Coburn Hall and adjoining rooms in the main part of the building.

The part of the museum illustrating the mineral resources of the State may be of great value, both from the scientific and economic standpoint. Students and others residing in the State are urged to contribute specimens from their home localities.

ZOOLOGICAL COLLECTIONS.—These collections occupy the lower floor of the wing of Coburn Hall. Some of the alcoholic and formalin material is placed in wall cases in the biological laboratories. The collections consist of a number of the larger mammals of the State; a small set of exotic mammals; a more complete working collection of native birds, birds' nests, and eggs; an illustrative collection of the other groups of vertebrates; a rather large collection of the shells of native and exotic molluscs; and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

BOTANICAL COLLECTIONS.—These collections are situated in rooms on the second and third floors. The herbarium includes several collections of considerable value, the most important of which is the one made

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by the late Rev. Joseph Blake and presented to the university by Mr. Jonathan G. Clark, of Bangor. It contains more than 7,000 species of both flowering and flowerless plants, and represents more especially the flora of Maine and other New England States, but includes many forms from the Western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the university, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algæ of the Maine Coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticæ, Cummings and Seymour's North American Lichens, and a collection of economic seeds prepared by the United States Department of Agriculture.

Collections other than the herbarium include exhibits illustrating the manufacture of paper and cocoa, the wood and bark features of the timber trees of Maine, conifers mounted in jars, plants used in pharmacy, commercial fibres, and artificial silk. A valuable collection of fossil plants was presented by Professor Harvey.

GEOLOGICAL COLLECTIONS.—These collections, occupying the upper floor of Coburn Hall, are accessible daily during the college year, except on Saturdays and Sundays. They include the more important fragmental, crystalline, and volcanic rocks; a collection of building stones; a series designed to illustrate the rocks of the State; a general collection of more common minerals; a collection of economic minerals furnished by the United States National Museum; an educational series of rocks furnished by the United States Geological Survey; and a small collection of plant and animal fossils.

ART COLLECTION

This collection consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. Many of the large reproductions are framed and the entire collection has found a fitting home in the Library Building, the gallery of which is well adapted to the exhibition of many of the plaster-cast reliefs and the larger framed works. The collection is distributed on the first and second floors, in the lecture room, and a seminar room. In the latter is a specially constructed cabinet for mounted photographs.

ORGANIZATIONS

The entire collection numbers upwards of 4,000 reproductions of various sorts covering the fields of Classical and Renaissance architecture, sculpture, and painting. The illustrations for the Greek, Florentine, and Venetian schools are particularly representative. For much of the most important work the photographs are supplemented by lantern slides.

The university possesses many of the famous polychrome prints published by the Arundel Society. These and many other colored reproductions covering nearly all the great masters of Italian painting have been framed; and in the case of the *Madonna della sedia* and the *Sistine Madonna* the reproductions were imported in the frames which are stucco copies of the originals in Dresden and Florence.

The lecture room in the library building contains examples of the work of the chief Florentine and Umbrian masters of the 14th and 15th centuries, arranged on the walls in historical sequence. The gallery of the second floor is devoted to masters of the High Renaissance.

For the study of Greek and Roman antiquity the Departments of Greek and Latin have a large collection of photographs and lantern slides.

ORGANIZATIONS

AGRICULTURAL CLUB.—This organization is composed of students taking agricultural courses. Meetings are held thruout the college year, at which important agricultural topics are discussed by members of the club, and also by prominent speakers from this and other states.

AMERICAN CHEMICAL SOCIETY.—The Maine Section of the American Chemical Society has its headquarters at Orono. Some students in the Department of Chemistry are members, and all are welcome to its meetings.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERING.—This is an organization for the promotion of the student's interest in electrical engineering work, and to keep him in touch with the latest developments in this branch of engineering activity. Membership in the branch is extended to members of the Electrical Engineering faculty, students pursuing the Electrical Engineering curriculum, and to members and associate members of the Institute.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—A regularly organized branch of this society holds regular meetings for the presentation and discussion of engineering papers by members and by visiting engineers.

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UNIVERSITY OF MAINE SOCIETY OF CIVIL ENGINEERING.—This society is composed of the students who are enrolled in the Curriculum in Civil Engineering. The object of the society is to investigate by reading and discussion the various engineering topics of the day. Monthly lectures are given under the direction of the society by members of the faculties of this and other institutions and by practicing engineers. The affairs of the society are controlled by the students under the advice of the department.

CERCLE FRANÇAIS.—The object of the Cercle Français is to cultivate the spoken French language and arouse and stimulate an interest in the intellectual life of France. The work is carried on in French. Papers are read and discussed and addresses delivered by the members. Plays are studied with a view toward production in French. The Cercle meets once in two weeks.

DEUTSCHER VEREIN.—This society is composed of teachers and students. Its purpose is to stimulate interest in the various phases of German life and literature and afford practice in speaking German. The number of members is limited. Meetings are held every three weeks during the academic year.

FORESTRY CLUB.—All students majoring in the curriculum in Forestry are eligible for membership in the Forestry Club. The purpose of the club is to give an opportunity for presenting informal discussions and technical papers on forestry subjects, and to promote cooperation and general good fellowship among the forestry students. The meetings are held monthly.

MAINE MASQUE.—This is a dramatic club which aims to make a practical study of the acted drama, and to present each year before the public one or more representative plays. Membership is determined by competitive trials to which all men undergraduates are eligible.

MENORAH ASSOCIATION.—An intercollegiate organization for the study and advancement of Jewish culture and ideals.

SPEAKERS' CLUB.—A local honorary society, open to all students who acquire a sufficiently high standing in public debate and oratory. The object of the club is to promote interest in public speaking at the university. It is in active cooperation with the Department of Public Speaking, and superintends some of the minor activities in oratory and debate.

CHRISTIAN ASSOCIATION.—The Christian Association, composed of men students, has for its object the promotion of Christian fellowship and aggressive Christian work. Religious services are held in the chapel every Sunday and classes for the study of the Bible are conducted during the week.

UNIVERSITY PUBLICATIONS

YOUNG WOMEN'S CHRISTIAN ASSOCIATION.—This is an organization for religious work composed of women students.

ALPHA CHI SIGMA.—Alpha Chi Sigma is a professional fraternity with chapters in various American colleges and universities. The members are elected from those whose major work is in the Department of Chemistry.

ALPHA ZETA.—The Maine chapter of Alpha Zeta, the national agricultural fraternity, was organized at the university in 1905. Chapters exist in twenty four other universities. Membership is honorary and is restricted to students attaining high class standing or to graduates who have shown marked ability along the lines of agricultural study and research.

PHI KAPPA PHI.—The Phi Kappa Phi is an honor society. Early in the fall semester of the senior year the seven members of the class having the highest standing are elected members, and during the spring semester the ten next highest may be elected, two of whom are from the College of Law.

SIGMA DELTA CHI.—This is an honor fraternity open to sophomores, juniors, and seniors who have shown unusual ability in the various courses in journalism, and who propose to enter upon journalism as a profession.

TAU BETA PI.—Tau Beta Pi is an honor fraternity for engineers and has chapters in leading universities and technical schools. Elections are made from those juniors and seniors in engineering who have shown high mental and moral qualifications.

UNIVERSITY PUBLICATIONS

ANNUAL REPORT.—The report includes an account of the general affairs and interests of the university for the year.

UNIVERSITY OF MAINE STUDIES.—These are occasional publications containing reports of investigations or researches made by university officers or alumni.

MAINE BULLETIN.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public.

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ANNUAL REPORT OF THE AGRICULTURAL EXPERIMENT STATION AND THE AGRICULTURAL EXPERIMENT STATION BULLETINS.—These give complete results of the work of investigation of the station. The Bulletins and Official Inspections are sent free on request to any resident of Maine.

OFFICIAL INSPECTIONS.—These are published by the Agricultural Experiment Station, and contain the result of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides, and insecticides.

MAINE CAMPUS.—This is a journal published weekly during the academic year by an association of the students.

PRISM.—The Prism is an illustrated annual, published by the junior class.

PRACTICAL HUSBANDRY.—This is a monthly magazine published under the direction of the Agricultural Club. It is devoted to practical and technical agriculture.

MAINE LAW REVIEW.—This is a magazine published under the direction of the students of the College of Law. It is devoted to a discussion of law cases and other current legal problems.

TECHNOLOGY EXPERIMENT STATION BULLETINS.—These are published monthly, and contain the results of the researches made in the engineering laboratories.

PUBLIC WORSHIP

A short assembly is held in the chapel every day except Saturday and Sunday. All undergraduate students are required to be present. Students receive a cordial welcome at all services in the churches of Orono. Voluntary religious services are held each week under the direction of the Christian Association and the Young Women's Christian Association.

STUDENT REGULATIONS

It is assumed that all students entering the university are willing to subscribe to the following: *A student is expected to show both within and without the university respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens and gentlemen.*

DEGREES

Special information in regard to rules and regulations may be obtained from the Registrar.

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of eighteen hours in the College of Arts and Sciences, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Agriculture and the College of Technology. The registration in the College of Law is a prescribed curriculum. In the application of this rule, two or three hours of laboratory work count as one hour.

Each student is expected to be present at every college exercise for which he is registered, including each chapel exercise.

SCHOLARSHIP HONORS

Scholarship honors are awarded to students who attain an average grade of B, or above, thruout their course. The names of students winning these honors are printed in the catalog.

DEGREES

BACHELORS' DEGREES

The degree of Bachelor of Arts (B. A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences.

The degree of Bachelor of Science (B. S.) in the curriculum pursued is conferred upon students who complete the prescribed work of four years in the Colleges of Agriculture or Technology.

The degree of Bachelor of Pedagogy (B. Pd.) is conferred upon students in the College of Arts and Sciences who have completed a course in an approved high school, a course in a normal school, and two years under prescribed conditions at the university.

The degree of Bachelor of Laws (LL. B.) is conferred upon students who complete the prescribed work in the College of Law.

The degree of Graduate in Pharmacy (Ph. G.) is conferred upon students who complete the two-year Pharmacy Curriculum.

The entrance requirements for this curriculum are being raised gradually from two years of high school work and will be a complete high school course, by 1919. As soon as proper courses can be provided, a

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three-year Curriculum in Pharmacy will be established, leading to the degree of Pharmaceutical Chemist (Ph. C.) requiring for entrance the completion of a four years high school course.

A minimum residence of one year is required for the attainment of any bachelor's degree.

ADVANCED DEGREES

Graduate students, whether candidates for a degree or not, are required to register at the office of the university at the beginning of each semester or summer term. They must have their course of study approved by the Committee on Graduate Study at the beginning of their work. Those entering the university after that date must obtain the consent of the Committee on Graduate Study before they can count a full year's work.

Each candidate for the master's degree shall report before registering at the beginning of each semester or the summer term to the chairman of the committee or to some member representing a field of work nearly related to his own. Candidates for the degree of Master of Arts, Master of Science, or Master of Laws must have received the corresponding bachelor's degree from this institution or from one granting a fully equivalent degree.

Candidates who are graduates of other institutions are required to present at registration credentials covering the courses pursued and the standing attained.

At least one year must elapse between the conferring of the bachelor's and the master's degree.

No work done before the recommending of the bachelor's degree shall be counted towards the master's degree.

The candidate shall devote at least one year to graduate resident study and shall complete work amounting to fifteen hours per week thruout the college year.

A registration fee of \$5 is charged, and an additional fee of \$15 for examinations and diploma is payable upon the completion of the work. One registration fee only is required of graduate students.

The curriculum shall include work in one major department or subject in which the candidate has already pursued undergraduate study for at least two years, and work in not more than two minor subjects which bears a distinct relation to the general plan or purpose of the major subject.

DEGREES

At least three fifths of the work must be done in the major subject. In special cases all the work may be done in one department.

All of the work must be of advanced character and must be tested by examinations which the candidate shall pass with distinction. Final written examinations for all regular courses completed, together with a copy of the questions set, shall be deposited with the secretary of the committee.

The candidate shall prepare as a part of his curriculum a satisfactory thesis on some topic connected with the major subject. These must be deposited in completed form with the Dean of the University on or before the date set for the oral examination.

At the end of the course of study for the master's degree, the candidate will be required to pass an oral examination covering his work, including the thesis work. This examination shall be open to all voting members of the faculty of the university. The time for such examinations will be arranged by the Dean of the University to accord, so far as possible, with the convenience of the candidate and the major instructor, between the dates of May 15 and June 1; but no student will be admitted to an oral examination until his thesis has been accepted. On May 15, the Dean of the University will notify the heads of all departments of the university of the dates set for the public oral examinations of all candidates of the year. While the examination will in each case, as a matter of course, be conducted chiefly by the members of the department in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate. The Committee on Graduate Study will be represented at each examination.

The professional degrees of Chemical Engineer (Ch. E.), Civil Engineer (C. E.), Electrical Engineer (E. E.), and Mechanical Engineer (M. E.) may be conferred upon graduates in the curricula in Chemistry, Chemical Engineering, Electrical Engineering, and Mechanical Engineering respectively, upon the presentation of satisfactory theses, after at least three years of professional work subsequent to graduation. During at least two of the years after graduation the candidate must have occupied a position of responsibility. Candidates are expected to be present in person to receive their degrees.

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THESES

Theses shall be printed, or typewritten in black record, unless the subject matter prevents, and the paper used shall be a standard thesis paper, 8 x 10 1-2 inches, which may be procured at the University Store. Care should be taken to have a margin of one inch on the inner edge, at least one-half inch on the outer edge, one and one-half inches at the top, and one inch at the bottom of the page.

If drawings accompany the thesis, they may be bound in with the rest of the pages or placed in a pocket on the inside of the book cover; or if too many for this, they may be bound separately according to personal instructions of the head of the department.

An outline of all undergraduate theses must be passed to the major instructor before May 1.

Complete instructions may be found in a pamphlet entitled "Degrees and Theses."

STUDENT EXPENSES

The estimates are prepared upon the basis of students living in university halls.

ESTIMATE OF ANNUAL EXPENSES FOR MEN

	Students from within the State		Students from without the State	
Registration.....	\$10 00		\$10 00	
Incidental	20 00		20 00	
Tuition	30 00		100 00	
Laboratory fees	10 00	to 25 00	10 00	to \$25 00
Text-books	10 00	to 30 00	10 00	to 30 00
Board 36 weeks @ \$3.50	126 00		126 00	
Room in a dormitory..	36 00	to 45 00	36 00	to 45 00
	<hr/> \$242 00 to \$286 00		<hr/> \$312 00 to \$356 00	

ESTIMATE OF ANNUAL EXPENSES FOR WOMEN

The expenses for women are the same as for men, except that the annual charge for board and room is uniformly \$170.00.

EXPENSES

EXCEPTIONS

By legislative enactment, students in agricultural and home economics curricula are exempted from the payment of tuition charges. This applies only to students from within the State. For such students the above estimates should be reduced by an amount equal to the tuition charge.

DETAILS OF LABORATORY FEES

The laboratory charges indicated above are made to cover cost of material used by the students. These charges vary with the subject and length of the course. They are as follows: Agronomy, per course, \$1.00 to \$1.50; Animal Industry, per course, \$1.00 to \$4.00; Bacteriology, per course, \$3.00; Biological Chemistry, per course, \$3.00 to \$4.00; Biology, per course, \$2.00 to \$3.00; Chemistry, per course, \$2.00 to \$5.00; Civil Engineering, per course, \$2.00 to \$5.00; Electrical Engineering, per course, \$5.00; Home Economics, from \$1.00 to \$12.00 per semester; Horticulture, per course, \$1.00 to \$2.00; Mechanical Engineering, per course, \$5.00; Mineralogy, per course, \$2.00; Pharmacy, about \$5.00 per semester; Physics, per course, \$2.50 to \$3.50; Shop Work, per course, \$4.00 to \$5.00.

SPECIAL CHARGES

A fee of \$2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of two dollars.

A fee of \$5.00 is required at the time of registration for a professional degree, and a fee of \$10.00 is required upon presentation of the thesis.

ROOMS

The rooms in the Mt. Vernon House, Balentine Hall, Oak Hall, and the middle section of Hannibal Hamlin Hall accommodate two students each. All other rooms accommodate four students each.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories for men are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in the dormitory has bed linen and three towels laundered each week without extra charge.

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Women students not living at home are required to live in one of the women's dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the President. To secure the reservation of a room in a university dormitory, application, accompanied by a deposit of \$5.00, should be made on or before September 1.

DEPOSITS TO COVER EXPENSES

STUDENTS FROM WITHIN THE STATE

	Registration	Tuition	Incidentals	Board and Room	To Apply on Laboratory Fees	Key Deposit	Total
Students in Agriculture....	\$5.00	.....	\$10.00	\$75.00	\$5.00	\$5.00	\$100.00
Students in HomeEconomics	5.00	.....	10.00	75.00	5.00	5.00	100.00
students in College of Law	5.00	20.00	10.00	.....	.....	.....	35.00
Students in all other courses	5.00	15.00	10.00	75.00	5.00	5.00	115.00

STUDENTS FROM WITHOUT THE STATE

	Registration	Tuition	Incidentals	Board and Room	To Apply on Laboratory Fees	Key Deposit	Total
Students in Agriculture....	\$5.00	\$50.00	\$10.00	\$75.00	\$5.00	\$5.00	\$150.00
Students in HomeEconomics	5.00	50.00	10.00	.....	5.00	5.00	150.00
Students in College of Law	5.00	50.00	10.00	.....	.....	.....	65.00
Students in all other courses	5.00	50.00	10.00	75.00	5.00	5.00	150.00

For a student not living in a university dormitory the above deposits are reduced by \$80.00.

Students in the College of Law, which is located in Bangor, do not live in university dormitories, therefore no deposit is required to apply on board and room. Board and furnished rooms, with light and heat, may be obtained at prices ranging from \$5.00 to \$7.00 a week.

COMMUNICATIONS

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

SCHOLARSHIPS AND PRIZES

BLANKET TAX

Students generally contribute \$10.00 annually to the support of athletics and the Maine Campus. This is not a university requirement, but is wholly voluntary.

KITTRIDGE LOAN FUND

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittridge, of Bangor. It is in the control of the President and the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. In the deed of gift it was prescribed that no security but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest be paid promptly, and that the principal be returned from the first earnings after graduation. Individual loans are limited to \$50.00.

SCHOLARSHIPS AND PRIZES

THE KIDDER SCHOLARSHIP, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the university of the class of 1879, and is awarded to a member of the junior class to be selected by the President and the faculty.

NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP, thirty dollars, is awarded upon conditions to be determined by the Board of Trustees. It has for some years been awarded to the student who excelled in debate.

PITTSBURG ALUMNI ASSOCIATION SCHOLARSHIP, tuition for one year, is awarded to a member of the junior class in the College of Technology, to be selected by the President and the professors of that college.

WESTERN ALUMNI ASSOCIATION SCHOLARSHIP, tuition for the sophomore year, is awarded a student pursuing a regular curriculum whose deportment is satisfactory and who makes good progress in his studies during his freshman year.

THE ELIZABETH ABBOTT VALENTINE SCHOLARSHIP was endowed by the Gamma chapter of Alpha Omicron Pi for a woman member of the sophomore class to be determined by the President and the faculty. This scholarship will be at least thirty dollars. Both scholarship and individual need are to be considered in the award.

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JUNIOR EXHIBITION PRIZES of fifteen dollars each are awarded to the members of the junior class who deliver the best orations at the junior exhibition. One prize is awarded to the man receiving the first rank in competition with the men of the junior class, and one prize awarded to the woman receiving first rank in competition with the women of the junior class. In the award of these prizes regard is given to thought, style, and delivery. Copies of these orations must be deposited with the Registrar before February 1.

SOPHOMORE ESSAY PRIZES, two of fifteen dollars each, one for men and one for women, are awarded to members of the sophomore class for excellence in composition. These essays must be presented by May 1.

CLARENCE P. KING PRIZE, twenty-five dollars, the gift of Mr. Clarence P. King, of Washington, D. C., is awarded to that member of the senior and junior classes who delivers the best original oration.

WALTER BALENTINE PRIZE, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., LL. D., Geneva, N. Y., a graduate of the university of the class of 1875, is awarded to that member of the senior class who excels in biological chemistry.

KENNEBEC COUNTY PRIZE, twenty-five dollars, the gift of the Hon. William T. Haines, LL. D., Waterville, a graduate of the university of the class of 1876, is awarded to that member of the junior class who writes the best thesis on applied electricity.

FRANKLIN DANFORTH PRIZE, ten dollars, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the university of the class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in an agricultural curriculum who attains the highest standing.

FATHER HARRINGTON PRIZE, twenty dollars, established by Rev. John M. Harrington, pastor of St. Mary's Church, Orono, is given to that student who writes the best essay upon modern literature. It may treat of German, English, French, Spanish, or Italian literature. The essay may be limited to any one of these literatures or to a comparative study of any number of them. This is open to any student in the university.

These essays must be deposited with the Registrar before May 1.

PHARMACY PRIZE, five dollars, is awarded to that student in the Pharmacy Department who attains the highest standing in chemistry in the last year of his course.

SCHOLARSHIPS AND PRIZES

HOLT PRIZES, the gift of Dr. Erastus Eugene Holt, of Portland, are given to the three students of the senior class who show the greatest improvement in their physical rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body devised by Dr. Holt.

AMERICAN PHARMACEUTICAL ASSOCIATION PRIZE, membership for one year in the association, is awarded by the faculty to the member of the senior class in Pharmacy who has made the best record in his college course.

THE AMERICAN LAW BOOK COMPANY PRIZE, consisting of a complete set of "Cyc" with annual annotations to date, is given to the student in the College of Law who shall take the highest scholarship honor for the period of his senior year. The method of award is left to the faculty of the College of Law.

THE CALLAGHAN AND COMPANY PRIZE, consisting of the Cyclopedic Law Dictionary, is given to the student in the College of Law who has obtained the highest general average for his junior year.

THE MALCOLM FASSETT STATE-CENTENNIAL PRIZE, \$50.00, the gift of Malcolm E. Fassett of the class of 1910, will be awarded to the student who writes the best one-act play dealing with typical or historical life and character in the State of Maine. The play should be in one act, preferably in one scene, and should require from thirty to forty-five minutes in presentation. In order to have the prize play available for production in 1920, all manuscripts will be due March 15, 1919. The contest will be under the direction of the council of the Maine Masque, subject to the approval of the President of the University. Plays may be submitted by any undergraduate student who is in regular standing at the university on March 15, 1919.

CLASS OF 1908 COMMENCEMENT CUP is awarded to the fraternity, the largest percentage of whose alumni register during Commencement week.

FRATERNITY SCHOLARSHIP CUP, presented to the university by the 1910 Senior Skull Society, is awarded at Commencement to that fraternity having the highest standing in scholarship for the preceding calendar year. The cup is to be awarded for eleven years, 1910 to 1920 inclusive, and the fraternity to which it is awarded the greatest number of times is to be its permanent owner.

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FRESHMAN SCHOLARSHIP CUP, presented by the Junior Mask Society, is awarded at Commencement to the fraternity whose freshman delegation has the highest standing in scholarship for the first semester.

ADMISSION

GENERAL REQUIREMENTS.—Candidates for admission should apply to the Registrar for an application card. They must present satisfactory certificates of fitness, or pass the required examinations, and make a cash deposit covering the bills of one semester. The university admits men and women, both residents of Maine and non-residents.

ADMISSION TO ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they wish to enter, or in other equivalent studies. A rank of B must be attained in order to pass any course without class attendance. Certificates from approved schools are accepted for the preparatory work, but certificates are not accepted for any part of the college work, unless such work has been done in a college. Students transferring from another college must present a letter of honorable dismission.

SPECIAL STUDENTS.—Persons 21 years of age, not candidates for a degree, may be admitted as special students if they give satisfactory evidence that they are prepared to take the desired subjects.

ADMISSION TO SHORT COURSES

Candidates for the two-year CURRICULUM IN PHARMACY must be at least seventeen years of age, and must have successfully completed at least three years in an approved high school. Such candidates must offer four years of high school work in the fall of 1919 and thereafter.

Candidates for the three-year CURRICULUM IN PHARMACY must be graduates of a recognized high school or its equivalent and must have successfully completed the two-year CURRICULUM IN PHARMACY or its equivalent.

Candidates for admission to the two-year SCHOOL COURSE IN AGRICULTURE must be over fifteen years of age and prepared for advanced grammar or high school work.

ADMISSION BY EXAMINATIONS

Entrance examinations are held at Orono, beginning four days before the opening of the fall semester, and on the Wednesday, Thursday,

ADMISSION

Friday, and Saturday preceding Commencement. To save expense to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on the days appointed in June. If possible, these examinations should be in charge of the principal of the school. Papers will not be sent at any other time. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the university immediately, accompanied by the endorsement of the examiner. The examination must be given on the days appointed in the schedule. Applications for such examinations must be made out on blanks to be obtained from the Registrar. Candidates for admission by examination, particularly those examined at Orono in September, should present statements from their school principals regarding their fitness to take the examinations and to undertake college work.

The examinations given by the College Entrance Examination Board will be accepted by the university. These examinations will be held during the week June 17-22, 1917. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the university may receive credit for such examination, provided he has completed not less than one-half of his preparatory work. It is advised that candidates avail themselves of this privilege as far as possible. Examinations on subjects which are to be continued in college should not be taken more than one year in advance.

ADMISSION OF GRADUATES FROM CLASS A SCHOOLS IN MAINE

Graduates from Maine high schools and academies placed by the State Superintendent of Schools in Class A may be admitted upon their school records, provided they have pursued a course of study including all the subjects required for admission to the curriculum that they propose to follow and a sufficient number of the elective subjects to make a total of fourteen and a half units.

The school record of the candidate must be certified by the principal, upon blanks furnished by the university, and should be submitted before August 1.

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ADMISSION BY CERTIFICATE FROM SCHOOLS OUTSIDE OF MAINE

Principals of schools situated outside of Maine who desire the certificate privilege must make application to the Dean of the University, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request.

Certificates will not be accepted for non-graduates except in unusual cases, and then only provided the candidate is expressly recommended for admission by the principal of the high school from which he comes. Certificates must be made out on blanks furnished by the university.

ENTRANCE REQUIREMENTS

To gain admission to any of the curricula leading to the degree of Bachelor of Arts or Bachelor of Science, 14½ units must be offered by the candidate, according to the following schedules (to count one unit, a subject must be pursued for one school year, with five recitation periods a week) :

COLLEGE OF ARTS AND SCIENCES

Required Subjects

Foreign languages	4 units
English	3 "
History	1 unit
Mathematics	2½units
<hr/>	
10½units	

Not less than two units of any foreign language may be offered. Credit for advanced work will be accepted at the rate of one unit for each year of work.

ADMISSION

Optional Subjects (4 units to be chosen)

Greek.....	2 or 3	units
Latin	2, 3, or 4	"
French.....	2, 3, or 4	"
German	2, 3, or 4	"
Spanish.....	2, 3, or 4	"
Advanced algebra	$\frac{1}{2}$	unit
Solid geometry	$\frac{1}{2}$	"
Trigonometry	1	"
Chemistry (including note-book).....	1	"
Physics (including note-book)	1	"
Physiography (one half or one year)	$\frac{1}{2}$ unit or 1	"
Biology (including note-book).....	1	"
Botany (including note-book)	1	"
Zoology (including note-book)	1	"
Physiology	$\frac{1}{2}$	"
Ancient History (1 year).....	1	"
English History (1 year).....	1	"
American History and civil government (1 year).....	1	"
Medieval and modern history	1	"

COLLEGES OF AGRICULTURE AND TECHNOLOGY

Required Subjects

English	3	units
*Algebra	$1\frac{1}{2}$	"
Plane geometry	1	unit
Solid geometry (College of Technology except Pharmacy).....	$\frac{1}{2}$	"
Foreign language (two years of one language).....	2	units
Science	1	unit
History	1	"

9 $\frac{1}{2}$ or 10 units

*Candidates who have had two full years of algebra, including a review during the last year, and the use of an advanced text-book, may receive credit of two units. Such a course is recommended for those who wish to pursue a curriculum in engineering or chemistry.

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Optional Subjects (4 1-2 or 5 units to be chosen)

Each year of French.....	1	unit
“ “ “ German.....	1	“
“ “ “ Spanish.....	1	“
“ “ “ Latin.....	1	“
“ “ “ Greek.....	1	“
Advanced Algebra.....	$\frac{1}{2}$	“
Trigonometry.....	$\frac{1}{2}$	“
†Mechanical Drawing.....	$\frac{1}{2}$	“
†Manual training.....	$\frac{1}{2}$	“
Chemistry (including note-book).....	1	“
Physics (including note-book).....	1	“
Physiography (one-half year or one year.....)	$\frac{1}{2}$ unit or 1	“
Biology (including note-book).....	1	“
Botany (including note-book).....	1	“
Zoology (including note-book).....	1	“
Physiology.....	$\frac{1}{2}$	“
Roman History.....	$\frac{1}{2}$	“
Greek history.....	$\frac{1}{2}$	“
English history.....	$\frac{1}{2}$ or 1	“

Candidates for admission to any curriculum, who are well prepared in all the required subjects, but whose high school course has included studies other than the electives mentioned above, will be allowed to substitute such as will furnish a real equivalent. Each case of proposed substitution will be considered upon its merits.

Credits for industrial and commercial subjects may be given at the discretion of the committee on admission. The total credit for these subjects will be limited to two units for admission to the College of Arts and Sciences, and to four units for the Colleges of Agriculture and Technology.

The requirement in history will be satisfied by a year of Greek and Roman history, or a year of English history, or a year of medieval and

†Graduates from high schools giving a full manual training course may receive credit for mechanical drawing, manual training, and free-hand drawing, on the basis of one-half unit for five forty-five minute periods per week for one year in one subject taken in the high school.

ADMISSION

modern history, or a year of American history and civil government.

A choice will be allowed between the last half year of algebra and solid geometry for those who do not expect to continue mathematics in college.

COLLEGE OF LAW

Regular Students. Students who enter as candidates for degrees must present credentials showing the completion of at least two full years of work in an approved college or university. An approved college or university will be understood to mean a college or university which requires at least 14 Carnegie units for entrance, which offers facilities for good college work, and which maintains acceptable standards.

Special Students. Special students will be admitted only when they satisfy the following requirements: They must be at least 21 years of age; they must appear personally before a committee consisting of the President of the University and the Deans of the Colleges, and satisfy this committee that they have the maturity and mental training that will qualify them to do acceptably the work required of regular students.

REQUIREMENTS IN DETAIL

Languages

ENGLISH.—The entrance examination in English presupposes courses in composition and English literature pursued in the high school during four years. Prospective students are warned against attempting to prepare the required work in less time. Progress in composition particularly is of slow growth and requires almost daily cultivation during a long period of time. Books, to be thoroly enjoyed and appreciated, should be read leisurely and under favorable circumstances.

Rhetoric.—Candidates are expected to have had practice in composition for at least three days a week during the whole four years of the high school, and to have included in the latter part of their course such work in the elements of rhetoric as, for example, is contained in Carpenter's *Rhetoric and Composition*.

Grammar.—The examination will include questions on the syntax of sentences, and on general grammatical principles.

Weight of Composition.—The examination is mainly designed to test the candidate's ability to express his thought correctly and clearly. It is quite possible to answer all questions on the literature correctly, and yet fail on the examination as a whole because of crude and ungrammatical English. Prospective candidates are advised to give especial attention to spelling, punctuation, grammatical correctness, idiomatic words and phrases, sentence and paragraph formation.

Subjects.—Subjects for short compositions will be taken from the A list of books; also from the candidate's general knowledge and experience.

The prescribed books are those adopted by the Conference on Uniform Entrance Requirements. The A list is for general reading; the B list is for study. The candidate is not expected to have a detailed knowledge of these books, but such acquaintance with them as naturally follows intelligent and appreciative reading. Two books are to be selected from each group.

Books in the A List

GROUP I

(For any unit of this group a unit from any other group may be substituted) Old Testament—Comprising the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther. Homer—The Odyssey, (English translation) with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; The Iliad, (English translation) with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI. Vergil—Æneid (English translation).

GROUP II

Shakespeare—Merchant of Venice, Midsummer-Night's Dream, As You Like It, Twelfth Night, King Henry V, Julius Cæsar.

GROUP III

Defoe—Robinson Crusoe, Part I. Goldsmith—The Vicar of Wakefield. Scott—Ivanhoe or Quentin Durward. Hawthorne—The House of the Seven Gables. Dickens—David Copperfield or A Tale of Two Cities.

ADMISSION

Thackeray—Henry Esmond. Gaskell—Cranford. Eliot—Silas Marner. Stevenson—Treasure Island.

GROUP IV

Bunyan—Pilgrim's Progress, Part I. Addison, Steele, and Budgell—The Sir Roger de Coverley Papers in "The Spectator." Franklin—Autobiography. Irving—Sketch-Book. Macaulay—Essays on Lord Clive and Warren Hastings. Thackeray—English Humorists. Lincoln—Selections from, including the two Inaugurals, the speeches in Independence Hall and at Gettysburg, the Last Public Address, and letter to Horace Greeley, along with a brief memoir or estimate. Parkman—The Oregon Trail. Thoreau—Walden. Huxley—Autobiography and Selections from Lay Sermons, including the Addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk. Stevenson—An Inland Voyage, and Travels with a Donkey.

GROUP V

Palgrave—Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns. Gray—An Elegy in a Country Churchyard, and Goldsmith—The Deserted Village, combined. Coleridge—The Rime of the Ancient Mariner, and Lowell—The Vision of Sir Launfal, combined. Scott—The Lady of the Lake. Byron—Childe Harold, Canto IV, and the Prisoner of Chillon. Palgrave—Golden Treasury (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley. Poe—The Raven; Longfellow—The Courtship of Miles Standish, and Whittier—Snow Bound, combined. Macaulay—Lays of Ancient Rome, and Arnold—Sohrab and Rustum, combined. Tennyson—Gareth and Lynette, Lancelot and Elaine, and the passing of Arthur. Browning—Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa, Down in the City.

Books in the B List

Shakespeare's Macbeth, Milton's Comus, L'Allegro, and Il Penseroso. Burke's Speech on Conciliation with America, or Washington's Farewell

UNIVERSITY OF MAINE

Address, and Webster's First Bunker Hill Oration. Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

FRENCH.—The admission requirements in elementary and intermediate French are those recommended by the Modern Language Association of America.

I. *Elementary French*.—At the end of the second year the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

The first year's work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the pronouns, common adverbs, prepositions, and conjunctions; order of words in the sentences, and elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in memory the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (4) the reading of 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variation of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

The second year's work should comprise: (1) the reading of 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About, *le Roi des montagnes*; Bruno, *le Tour de la France*; Daudet, *Easier Short Tales*; De la Bédollière, *La Mère Michel et son chat*; Erckmann-Chatrian's *Stories*; Foa, *Contes biographiques* and *le Petit Robinson de Paris*; Foncin, *le Pays de France*; Labiche and Martin. *la Poudre aux yeux* and *le Voy-*

ADMISSION

age de *M. Perrichon*; Legouvé and Labiche, *la Cigale chez les fourmis*; Malot, *sans Famille*; Mairret, *la Tâche du petit Pierre*; Mérimée, *Colomba*; Extracts from Michelet; Sarcey, *le Siège de Paris*; Verne's Stories.

II. *Intermediate French*.—At the end of the third year the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thoro knowledge of syntax than is expected in the elementary course.

This should comprise the reading of 400 to 600 pages of French of ordinary difficulty, a portion to be the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate proportions; writing from dictation.

Suitable texts are: About Stories; Augier and Sandeau, *le Gendre de M. Poirier*; Bérauger's Poems; Corneille, *le Cid* and *Horace*; Coppée's Poems; Daudet, *la Belle Nivernaise*; La Brète, *Mon oncle et mon curé*; Madame de Sévigné's Letters; Hugo, *Hernani* and *la Chute*; curé; Madame de Sévigné's Letters; Hugo, *Hernani* and *la Chute*; Labiche's Plays; Loti, *Pêcheur d'Islande*; Mignet's Historical Writings, *Andromaque*, and *Esther*; George Sand's Plays and Stories; Sandeau, *Mademoiselle de la Seiglière*; Scribe's Plays; Thierry, *Récits*; Vigny, *la Canne de jonc*; Voltaire's Historical Writings.

At the end of the fourth year the pupils should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose, and to carry on a simple conversation in French.

This should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais's *Barbier de Séville*; Corneille's Dramas; the elder Dumas's Prose Writings; the younger Dumas's *la Question d'argent*; Hugo, *Ruy Blas*, Lyrics, and Prose Writings; La Fontaine's Fables; Larmartine, *Graziella*; Marivaux's Plays; Molière's Plays; Musset's Plays and Poems; Pellissier, *Mouve-*

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ment littéraire au XIX siècle; Renan, *Souvenirs d'enfance et de jeunesse*; Rousseau's Writings; Sainte-Beuve's Essays; Selections from Zola, Maupassant, and Balzac.

The examination of the College Entrance Certificate Board in elementary French will be accepted for two units, and that in intermediate French for two additional units.

GERMAN.—The admission requirements in elementary and advanced German are those recommended by the Modern Language Association of America.

I. Elementary German.—The first year's work should comprise: (1) careful drill upon pronunciation; (2) memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar; that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more unusual strong verbs; also in the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar but also to cultivate readiness in reproducing natural forms of expression; (5) the reading of 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in reproducing from memory sentences previously read.

The second year's work should comprise: (1) the reading of 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in translating into German easy variations upon the matter read, also in the off-hand reproductions, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill in the rudiments of grammar, to enable the pupil first, to use his knowledge with facility in forming sentences, and secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Anderson, *Märchen* and *Bilderbuch ohne Bilder*; Baumbach, *Die Nonna* and *Der Schwiegersohn*; Gerstäcker, *Germelshausen*; Heyse, *L'Arrabiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern, *Höher als die Kirche*; Jensen, *Die braune Erica*; Leander,

Träumereien and *Kleine Geschichten*; Seidel, *Märchen*; Stokl, *Unter dem Christbaum*; Storm, *Immensee* and *Geschichten aus der Tonne*; Zschokke, *Der zerbrochene Krug*.

The best shorter plays available are: Benedix, *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz, *Er ist nicht eifersüchtig*; Wichert, *An der Majorsecke*; Wilhelmi, *Einer muss heiraten*. Only one of these plays need be read, and the narrative style should predominate. A good selection of reading matter for the second year would be Anderson, *Märchen* or *Bilderbuch*, or Leander, *Träumereien*, to the extent of about forty pages. Afterward, such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; last *Der Prozess*.

II. *Advanced German*.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill in the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with especial reference to the infinitive and subjunctive), and likewise in word order and word formation. To do this work two school years are usually required.

Suitable reading matter for the third year may be selected from such work as the following: Ebner-Eschenbach, *Die Freiherren von Gemperlein*; Freytag, *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*, Karl der Grosse, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué, *Undine*; Gerstäcker, *Irrfahrten*; Goethe, *Hermann und Dorothea* and *Iphigenie*; Heine's Poems and *Reisebilder*; Hoffman, *Historische Erzählungen*; Lessing *Minna von Barnhelm*; Meyer, *Gustav Adolfs Page*; Moser, *Der Bibliothekar*; Riehl, *Novellen*, *Burg Neideck*, *Der Fluch der Schönheit*, *Der Stumme Ratsherr*, *Das Spielmannskind*; Rosegger, *Waldheimat*; Schiller, *Der Neffe als Onkel*, *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel, *Der Trompeter von Säckingen*; Uhland's Poems; *Wildenbruch*, *Das edle Blut*. A good selection would be: (1) one of Riehl's novelettes; (2) one of Freytag's "pictures;" (3) part of *Undine* or *Der Geisterseher*; (4) a short course of reading in lyrics and ballads; (5) a classical play by Schiller, Lessing, or Goethe.

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The examinations of the College Entrance Certificate Board in elementary German will be accepted for two units, and that in advanced German for one additional unit.

SPANISH.—The admission requirements in Spanish are those of the College Entrance Examination Board.

Elementary Spanish.—At the end of the second year of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as indicated below.

The first year's work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the careful reading and accurate rendering into good English of about 100 pages of easy prose and verse, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

The second year's work should comprise: (1) The reading of about 200 pages of prose and verse; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the modes and the tenses; (5) writing Spanish from dictation; (6) memorizing of easy short poems.

The emphasis should be placed on careful thoro work with much repetition rather than upon rapid reading. The reading should be selected from the following: A collection of easy short stories and lyrics, carefully graded; Juan Valera, *El pájaro verde*; Pérez Escrich, *Fortuna*; Ramos Carrion and Vital Aza, *Zaragüeta*; Palacio Valdés, *José*; Pedro de Alarcón, *El Capitán Veneno*; the selected short stories of Pedro de Alarcón or Antonio de Trueba.

LATIN.—The entrance examination in Latin will consist of four parts, as follows:

1. An examination on the elements of Latin grammar and easy translations.

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2a. An examination in sight translation of Latin prose suited to test the ability of a candidate who has read from Cæsar (Gallic War and Civil War) and Nepos (Lives) an amount not less than Cæsar, Gallic War, I-IV.

b. Questions on the ordinary forms and constructions of Latin grammar and the translation of easy English sentences into Latin.

3a. An examination on Cicero, speeches for the Manilian Law and for Archias, with questions on subject-matter, literary and historical allusions, and grammar.

b. An examination in sight translation of Latin prose adapted to candidates who have read from Cicero (speeches, letters, and De Senectute) and Sallust (Catiline and Jugurthine War) an amount not less than Cicero, speeches against Catiline I-IV, for the Manilian Law, and for Archias.

c. A test in writing simple Latin prose which shall demand a thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school.

4a. An examination on Vergil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject matter, literary and historical allusions, and prosody.

b. An examination in sight translation of Latin poetry adapted to candidates who have read from Vergil (*Bucolics*, *Georgics*, and *Æneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*) an amount not less than Vergil, *Æneid*, I-VI.

A candidate may obtain separate credit for each part except in the College of Arts and Sciences. Each represents a year's work and entrance credit for one unit.

In parts 2 and 3 candidates must deal satisfactorily with both the sight and set passages, or they will not be given credit for either.

GREEK.—The grammar, including prosody; Xenophon's *Anabasis*, books I-IV; Homer's *Iliad*, books I-III; the sight translation of easy passages from Xenophon; the translation into Greek of easy passages based on the required books of the *Anabasis*. For the last a vocabulary of less usual words will be furnished. Equivalent readings will be accepted in place of those prescribed.

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History

GREEK HISTORY.—History of Greece, to the capture of Corinth, 146 B. C.; Myers, Morey, or Botsford.

ROMAN HISTORY.—A knowledge of Roman history, down to the death of Marcus Aurelius, such as may be obtained from Allen's Short History of the Roman People, or from Meyer's Rome: Its Rise and Fall, or from Morey's Outlines of Roman History.

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery, Coman and Kendall, Terry, or Cheyney's History of England.

UNITED STATES HISTORY AND CIVIL GOVERNMENT.—A knowledge such as may be obtained from the works of Fiske, Hart, Montgomery, or McLaughlin.

Mathematics

ALGEBRA.—The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and least common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that may be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils are required thruout the course to solve numerous problems which involve putting questions into equations. Some of the problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

PLANE GEOMETRY.—The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

ADMISSION

SOLID GEOMETRY.—The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

TRIGONOMETRY.—Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle; the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles, and practical applications.

ADVANCED ALGEBRA.—Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

Sciences

***BIOLOGY.**—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

***CHEMISTRY.**—The necessary ground is covered by the following text-books: Brownlee and others, Hessler and Smith, McPherson and Henderson, Newell.

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PHYSICAL GEOGRAPHY (PHYSIOGRAPHY).—A satisfactory preparation may be obtained from either Appleton's or Tarr's Physical Geography.

*PHYSICS.—The work usually covered in one year in a good fitting school.

The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the board. The note-book should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

*The work in these sciences must include certified note-books exhibiting the results of experimental work performed by the student. In physics forty exercises are required and in chemistry fifty exercises. These note-books should be presented at the examination. In the case of students certified in the sciences, the principal is expected to pass upon the quality of the note-books rather than send them to the university.

ORGANIZATION OF THE UNIVERSITY

The university is divided for purposes of administration into the Colleges of Agriculture, Arts and Sciences, Law, and Technology, and the Maine Agricultural Experiment Station. The policies of the university as a unit are determined by the Board of Trustees and the general faculty, but each division regulates those affairs which concern itself alone.

COLLEGE OF AGRICULTURE

Curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, Poultry Husbandry, and for Teachers of Agriculture.

School Course in Agriculture (two years)

Short Courses; Farmers' Week; Correspondence and Lecture Courses; Demonstration Work.

COLLEGE OF ARTS AND SCIENCES

Major subjects may be selected in Biology, Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, and Spanish and Italian.

COLLEGE OF LAW

This College offers a prescribed curriculum leading to the degree of Bachelor of Laws.

COLLEGE OF TECHNOLOGY

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Pharmacy.

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MAINE AGRICULTURAL EXPERIMENT STATION

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.

GRADUATE COURSES leading to the Master's degree have been organized. These courses are administered by the Committee on Graduate Study.

A SUMMER TERM of six weeks is maintained by the university.

GENERAL STATEMENT

The college year is divided equally into a fall semester and a spring semester. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week (exclusive of physical training and military science). In the College of Agriculture and the College of Technology the minimum is seventeen hours a week (exclusive of physical training and military science). Thirty hours in the major subject represent the minimum requirement for a degree.

COLLEGE OF AGRICULTURE

COLLEGE OF AGRICULTURE

FACULTY OF INSTRUCTION

LEON STEPHEN MERRILL, M. D.

Director of the Agricultural Extension Service
DEAN

LUCIUS HERBERT MERRILL, Sc. D.

Professor of Biological and Agricultural Chemistry

FREMONT LINCOLN RUSSELL, B. S., V. S.

Professor of Bacteriology and Veterinary Science

MINTIN ASBURY CHRYSLER, Ph. D.

Professor of Biology

JOHN MANVERS BRISCOE, M. F.

Professor of Forestry

GEORGE EDWARD SIMMONS, M. S.

Professor of Agronomy

BLISS S BROWN, M. S.

Professor of Horticulture

LAMERT SEYMOUR CORBETT, M. S.

Professor of Animal Industry

FRANCES ROWLAND FREEMAN, M. S.

Professor of Home Economics

ALICE MIDDLETON BORING, Ph. D.

Associate Professor of Zoology

CARLETON WHIDDEN EATON, A. B., M. F.

Associate Professor of Forestry

HAROLD SCOTT OSLER, B. S.

Associate Professor of Agronomy

HARRY NEWTON CONSER, M. S., M. A.

Assistant Professor of Botany

HARRY WOODBURY SMITH, B. S.

Assistant Professor of Bacteriology

FRANCES MARIE WHITCOMB, B. S.

Assistant Professor of Home Economics

HERMAN PITTEE SWEETSER, B. S.

Assistant Professor of Horticulture

HAROLD JOSEPH SHAW

County Agricultural Agent, Sagadahoc County

UNIVERSITY OF MAINE

CLARENCE WALLACE BARBER, M. S.	
	<i>County Agricultural Agent, Cumberland County</i>
CLARENCE ALBERT DAY	
	<i>County Agricultural Agent, Washington County</i>
ARTHUR LOWELL DEERING, B. S.	
	<i>County Agricultural Agent, Kennebec County</i>
MAURICE DANIEL JONES, B. S.	
	<i>County Agricultural Agent, Penobscot County</i>
GEORGE ALBERT YEATON	
	<i>County Agricultural Agent, Oxford County</i>
ALBERT KINSMAN GARDNER, B. S.	
	<i>County Agricultural Agent, Franklin County</i>
HAROLD HARLAN NASH	
	<i>County Agricultural Agent, York County</i>
GEORGE PIKE WORDEN, B. S.	
	<i>County Agricultural Agent, Cumberland County</i>
RALPH PIKE MITCHELL	
	<i>State Leader of Boys' Agriculture Club Work</i>
JOSEPH HENRY BODWELL, B. S.	
	<i>County Agricultural Agent, Piscataquis County</i>
ROGER LOCKE GOWELL, B. S.	
	<i>County Agricultural Agent, Knox County</i>
ROBERT MARK STILES	
	<i>County Agricultural Agent, Somerset County</i>
WILLIAM COLLINS MONAHAN, B. S.	
	<i>Extension Instructor in Poultry Work</i>
PAUL WHEELER MONOHON, B. S.	
	<i>Assistant County Agent Leader</i>
CATHARINE NORTON PLATTS, S. B.	
	<i>Extension Instructor in Home Economics</i>
KATHRYN TAYLOR GORDON, S. B.	
	<i>Extension Instructor in Home Economics</i>
MARY ISABEL HASKELL, S. B.	
	<i>State Leader Girls' Agricultural Club Work</i>
NEIL CARPENTER SHERWOOD, B. S.	
	<i>Extension Instructor in Dairying</i>
†DOROTHEA BEACH	<i>Instructor in Home Economics</i>

†Absent on leave, without pay, September 1, 1916, to September 1, 1917

COLLEGE OF AGRICULTURE

SIDNEY WINFIELD PATTERSON, B. S.

Instructor in Biological and Agricultural Chemistry

HELEN ANN KNIGHT, Ph. B.

Instructor in Home Economics

ALTON WILLARD RICHARDSON, B. S.

Instructor in Animal Industry

J FRED THOMAS, B. S.

Instructor in Animal Industry

STANLEY BEN SINK, B. Sc.

Instructor in Agronomy

RICHARD THEODORE MULLER, B. S.

Instructor in Horticulture

ABRAHAM STRAUSS, B. Sc.

Instructor in Botany

ESTHER MCGINNIS, B. Sc.

Instructor in Home Economics

OSCAR MILTON WILBUR, B. S.

Instructor in Animal Industry

PERCY BARNETTE WILTBERGER, M. Sc.

Instructor in Entomology

DONALD VINCE ATWATER, B. S.

Assistant in Biology

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural Extension, Agronomy, Animal Industry, Biological and Agricultural Chemistry, Biology, Farm Management and Agricultural Engineering, Forestry, Home Economics, Horticulture, and Veterinary Science and Bacteriology. The aim of this college is to train young men for service as farmers, teachers of agriculture and the allied sciences in schools and colleges, investigators in agricultural experiment stations, and foresters; and to prepare young women to become teachers of home economics and to comprehend the problems of administration in the home and in public institutions. On entering either a four-year curriculum or the two-year School Course in Agriculture a student is required to fill out a practical experience blank. Those who have not had experience in general farming are required to work during at least one summer vacation on some farm approved by the faculty of the college.

The college curricula are designed for those who wish to follow general farming, animal husbandry, dairy husbandry, poultry husbandry, horticulture, home economics, chemistry as related to experiment station work, biological chemistry, bacteriology and veterinary science, biology, farm management, and forestry either as a business or as a profession.

One of the following curricula, embracing 150 college hours each, is required for the students pursuing a four-year curriculum in the College of Agriculture.

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The courses of instruction are organized as follows:

1. REGULAR CURRICULA

The four-year general curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, and Poultry Husbandry, and the four-year curriculum for Teachers in General Agriculture

2. SHORT COURSES

The two-year School Course in Agriculture

The short winter courses in General Agriculture, Dairying, Horticulture, and Poultry Management
Farmers' week

3. EXTENSION COURSES

The correspondence courses

The lecture courses

Movable or extension schools

CURRICULA IN AGRICULTURE

Certain studies are fundamental to all work in agricultural lines. As many as possible of these studies are offered in the first two years, during which the student is necessarily given no choice of courses. By the beginning of the junior year each student must decide whether he is to specialize in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Home Economics, Horticulture, or Poultry Husbandry. To specialize in any of these lines, he must during his junior and senior years take the studies given in the schedules which follow.

Students who contemplate entering agricultural experiment station work should elect the course offered by the Department of Agricultural Chemistry covering the qualitative and quantitative chemical analysis of fodders, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

The elective subjects are selected with the advice of the major instructor.

Before receiving their degrees candidates must satisfy the faculty that they are familiar with the methods of conducting operations incident to general farming. This does not apply to students who major in Biology, Forestry, and Home Economics.

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Curriculum for the First Two Years for All Students Taking Four-year Curricula in Agriculture

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 11, †4.....	2	Animal Industry 2.....	2
Chemistry 1 or 3.....	2	Animal Industry 4, †2.....	1
Chemistry 5, †4.....	2	Botany 2, 2 †4.....	4
Drawing 9, *3.....	1	Chemistry 2 or 4.....	3
Public Speaking 3.....	1	Chemistry 6, †4.....	2
English 7.....	2	Drawing 10, *3.....	1
Military 1, *3.....	1	Public Speaking 4.....	1
Modern Language.....	3	English 8.....	2
Zoology 1, 2, †4.....	4	Military 2, *3.....	1
Physical Training 1.....	½	Modern Language.....	2
		Physical Training 2.....	1

SOPHOMORE YEAR

Agronomy 1, 2 *3.....	3	Agronomy 12, 2 †2.....	3
Animal Industry 3.....	2	Biochemistry 2, 3 †4.....	5
Animal Industry 5, †2.....	1	Biology 8, 2 †4.....	4
Biochemistry 1.....	2	Horticulture 2, 2 *3.....	3
Biology 3.....	2	Mathematics 12.....	2
Chemistry 15, 2 †2.....	3	Military 2, *3.....	1
Mathematics 11.....	3	Poultry Husbandry 2, 1 †2.....	2
Military 1, *3.....	1		
Poultry Husbandry 1, 2 †2.....	3		

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Curriculum for Students Specializing in Agronomy

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 13, 1 †2.....	2	Agricultural Chemistry 6.....	2
Animal Industry 7, 2 †4.....	4	Agronomy 14, 1 †2.....	2
Bacteriology 1, †6.....	3	Agronomy 16, 1 †2.....	2
Bacteriology 3.....	2	Agronomy 18.....	2
Biology 9, 2 †6.....	5	Animal Industry 6.....	2
English 17.....	2	Biology 10, 2 †6.....	5
Elective	2	English 18.....	2
		Elective	3

SENIOR YEAR

Agronomy 3.....	2	Farm Management 2, †4.....	2
Agronomy 15, 1 †2.....	2	Farm Management 72, 2 *3....	3
Farm Management 71, 2 *3.....	3	Farm Management 74, 2 *3....	3
Elective	10	Elective	7

Curricula for Students Specializing in Animal Industry

ANIMAL HUSBANDRY

JUNIOR YEAR

Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6.....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Animal Industry 52, †2.....	1
Biology 51, 2 †4.....	4	Bacteriology 52, †6.....	3
English 17.....	2	Biology 52, 2 †4.....	4
Farm Management 71, 2 *3.....	3	English 18.....	2
		Veterinary Science 14.....	3
		Veterinary Science 16.....	1

COLLEGE OF AGRICULTURE

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 3.....	2	Animal Industry 54.....	2
Animal Industry 53.....	2	Farm Management 2, †4.....	2
Veterinary Science 15.....	2	Farm Management 72, 2 *3....	3
Veterinary Science 17.....	1	Elective	11
Veterinary Science 19.....	2		
Elective	9		

DAIRY HUSBANDRY

JUNIOR YEAR

Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6.....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Animal Industry 8, 1 *6.....	3
English 17.....	2	Bacteriology 52, †6.....	3
Farm Management 71, 2 *3.....	3	English 18.....	2
Elective	1	Veterinary Science 14.....	3
		Veterinary Science 16.....	1
		Elective	3

SENIOR YEAR

Agronomy 3.....	2	Bacteriology 54, †4 or †6...2 or 3	
Animal Industry 9, 2 *6.....	4	Farm Management 2, †4.....	2
Animal Industry 51.....	3	Farm Management 72, 2 *3....	3
Veterinary Science 15.....	2	Elective.....	10 or 9
Veterinary Science 17.....	1		
Elective	6		

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POULTRY HUSBANDRY

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6.....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Biology 52, 2 †4.....	4
Biology 51, 2 †4.....	4	English 18.....	2
English 17.....	2	Poultry Husbandry 4, 1 †2....	2
Poultry Husbandry 3, 1 †2.....	2	Elective	7
Elective	2		

SENIOR YEAR

Agronomy 3.....	2	Farm Management 2, †4.....	2
Farm Management 71, 2 *3.....	3	Farm Management 72, 2 *3....	3
Poultry Husbandry 5.....	2	Poultry Husbandry 6, 3 †2....	4
Poultry Husbandry 7, 2 †2.....	3	Veterinary Science 12.....	2
Elective	7	Elective	6

Curriculum in Horticulture

JUNIOR YEAR

Bacteriology 3.....	2	Agricultural Chemistry 6.....	2
Biology 9, 2 †6.....	5	Animal Industry 6.....	2
English 17.....	2	Bacteriology 2, †6.....	3
Horticulture 1, 2, †2.....	3	Biology 10, 2 †6.....	5
Horticulture 7, 2 †2.....	3	English 18.....	2
Horticulture 9, 2 †2.....	3	Horticulture 10.....	2
		Elective	2

SENIOR YEAR

Agronomy 3.....	2	Farm Management 2, †4.....	2
Farm Management 71, 2 *3.....	3	Horticulture 4, 2 †2.....	3
Horticulture 3, 2 †2.....	3	Horticulture 8, 2 †2.....	3
Horticulture 5, 2 †2.....	3	Horticulture 52.....	1
Horticulture 51.....	1	Elective	9
Elective	6		

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Curriculum in Biology

JUNIOR YEAR

Bacteriology 3.....	2	Bacteriology 2, †6.....	3
English 17.....	2	English 18.....	2
Geology 5.....	3	Modern Language.....	2
Modern Language.....	3	Plant Pathology 66.....	} 3
Plant Histology 61.....	} 4	or	
or		Elective	
Vertebrate Anatomy 51.....	} 4	Animal Embryology 52....	} 4
Elective		Plant Physiology 62.....	
	3	Elective	4

SENIOR YEAR

Animal Physiology 53.....	} 4	Animal Embryology.....	} 4
or Plant Taxonomy		or	
and Morphology 63.....		Plant Physiology.....	
Biology Seminar.....	1	Animal Histology 54.....	} 4
Thesis or Elective.....	3	or Plant Pathology 66	
Vertebrate Anatomy 51.....	} 4	or Elective	
or		Biology Seminar.....	1
Plant Histology 61.....		Thesis or Elective.....	3
Elective	6½	Elective	6 or 7

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Forestry Curriculum

A complete undergraduate curriculum is arranged which will serve as the basis not only for practical work in forestry, but also for a liberal education. During the first two years much attention is given to biology and civil engineering, both of which are important fundamental subjects upon which are built the technical forestry courses. A knowledge of the principles of forestry in its different branches is gained by the student and considerable practical work is done in the forest. The woodlands belonging to the university, together with adjacent lands covered by young forest, furnish a field for the study of many forest problems. Field trips are made and demonstration thinnings and plantings made at various places thruout the State.

The instruction in this department consists of lectures, recitations, laboratory, and field work; the latter consumes a considerable portion of the scheduled time during the junior and senior years.

Curriculum in Forestry

FRESHMAN YEAR			
Subject	Hours	Subject	Hours
<i>Fall Semester</i>		<i>Spring Semester</i>	
Chemistry 1 or 3.....	2	Botany 2, 2, †4.....	4
Chemistry 5, †4.....	2	Chemistry 2 or 4.....	3
Drawing 1, *6.....	2	Chemistry 6, †4.....	2
English 7.....	2	Drawing 2, *6.....	2
Forestry 1.....	2	English 8.....	2
Mathematics 1.....	3	Mathematics 2.....	3
Military 1, *3.....	1	Mathematics 12.....	2
Zoology 1, 2 †4.....	4	Military 2, *3.....	1
Physical Training.....	½	Physical Training.....	1
SOPHOMORE YEAR			
Agronomy 1, 2 *3.....	3	Biology 8, 2 †4.....	4
Biology 67, 2 †4.....	4	Biology 68, 2 †4.....	4
Civil Engineering 1.....	2½	Civil Engineering 2.....	1
Economics 1b.....	2	Civil Engineering 4.....	1
English 9.....	2	Economics 2b.....	2
Military 1, *3.....	1	English 10.....	2
Modern Language.....	3	Forestry 10.....	1
Public Speaking 3.....	1	Military 2, *3.....	1
		Modern Language.....	2
		Public Speaking 4.....	1

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JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Biology 61, 2 †4.....	4	Biology 62, 2 †4.....	4
Civil Engineering 21	1	Civil Engineering 22.....	2
Civil Engineering 23	1	Civil Engineering 24.....	2
Civil Engineering 27	1	Forestry 4.....	1
Forestry 11.....	2	Forestry 6.....	2
Forestry 13, *6.....	2	Forestry 8, *6.....	2
Horticulture 5, 2 †2.....	3	Forestry 28.....	1
Modern Language.....	3	Modern Language	2
Elective	3	Elective	3

SENIOR YEAR

Forestry 3.....	2	Biology 66.....	3
Forestry 5.....	1	Forestry 12.....	2
Forestry 9.....	1	Forestry 14, *6.....	2
Forestry 15.....	2	Forestry 16.....	2
Forestry 17, *6.....	2	Forestry 18, *6.....	2
Forestry 19.....	2	Forestry 20.....	2
Forestry 21, *6.....	2	Forestry 24.....	1
Elective	6	Elective	3

Curriculum in Home Economics

This curriculum leads to the degree of Bachelor of Science (in Home Economics). In addition to the prescribed studies, elective courses are offered for those who plan to teach.

Laboratory fees are as follows: Courses 1, 2, 7, 8, 12, 13, 17, each \$1 a semester. Courses 5, 6, 10, 11, each \$6 a semester. All materials for garment making must be provided by the students.

Students taking courses 5, 6, 10, and 11 are required to wear in the laboratory white tailored waists, high collars, washable ties, caps, shoes with rubber heels, and white aprons with bibs. They must also be provided with small white hand towels.

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Curriculum in Home Economics

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
English 7.....	2	English 8.....	2
History 7.....	3	History 8.....	3
Home Economics 1, 1 †4.....	3	Home Economics 2, 1 †4.....	3
Home Economics 3, 1 †2.....	2	Home Economics 4, 1 †2.....	2
Modern Language.....	3	Modern Language.....	2
Physical Training.....	½	Physical Training.....	1

SOPHOMORE YEAR

Art 3.....	2	Art 4.....	2
Chemistry 15, 2 †2.....	3	Botany 2, 2 †4.....	4
Elementary Physiology 5, 2 †4..	4	English 30.....	3
English 29.....	3	Food Analysis 8, 1 †6.....	4
Home Economics 5, 2 †4.....	4	Home Economics 6, 2 †4.....	4
Modern Language.....	3	Modern Language.....	2
Physical Training.....	½	Physical Training.....	1

JUNIOR YEAR

Bacteriology 1, †6.....	3	Home Economics 8, †6.....	3
Bacteriology 3.....	2	Home Economics 10, 3 †4.....	5
Biochemistry 7, 3 †4.....	5	Philosophy 52.....	3
Home Economics 7, 2 †4.....	4	Physics 8, 4 †2.....	5
Philosophy 51.....	3	Elective	3
Elective	3		

SENIOR YEAR

English 45.....	3	Home Economics 12, 3 †2.....	4
Home Economics 9.....	3	Home Economics 14.....	2
Home Economics 17, 1 †4.....	3	Home Economics 18, 1 †4.....	3
Sociology 55.....	3	Sociology 56.....	3
Elective	6	Elective	6

Students desiring to teach should elect Education 51 and 52, and Home Economics 16.

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Special Courses in Agriculture and Home Economics

The Special Courses in Agriculture and Home Economics are designed for young men and women who cannot spend four years in preparation, but who desire to secure special training. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, dairying, poultry management, veterinary science, agricultural chemistry, bacteriology, farm management, general agriculture, or home economics.

Persons not candidates for a degree who desire to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to pursue them. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, and not for those who are incompetent to pursue a regular course. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four-year curricula. Tuition is free to residents of Maine except in Forestry and Biology.

Two-year School Course in Agriculture

This is a course designed to train young men and women who wish to become practical farmers, farm superintendents, dairymen, poultrymen or gardeners, but who cannot devote time to high school or college training.

The same equipment is used as in the four-year curricula, but the work is of a more elementary nature. All the classes are separate and distinct from the four-year classes, and in no case will college credit be allowed for work done in the School Course.

There are no entrance examinations required of those who desire to enter the School Course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. No tuition is charged in this course, but the same registration and incidental fees of fifteen dollars a semester, or thirty dollars a year, are charged School Course in Agriculture students as are charged all others attending the university. Fees amounting to two dollars and fifty cents are charged in each of the carpentry and blacksmithing courses to cover cost of material used. Fees are also charged in several agricultural laboratories.

The practical side of the work in this course is strongly emphasized, and since students are expected to be able to do work and handle men

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when they are finished, those taking this course are required to spend the summer vacation between the first and second years in work either at the college or on some farm approved by the faculty.

On completion of the course a certificate is awarded those who have satisfactorily done the work.

FIRST YEAR			
<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Husbandry, 3 †2.....	4	Dairy Husbandry, 3 *3.....	4
Business Arithmetic and Farm Accounts	2	English	3
Carpentry, *3.....	1	Farm Botany.....	2
English	3	Forge Work, *3.....	1
Farm Crops, 3 *3.....	4	Fruit Growing, 3 *3.....	4
Fruit Handling, 3 *3.....	4	Poultry Husbandry, 2 †2.....	3
Poultry Husbandry.....	2	Soils and Fertilizers, 3 *3.....	4

SECOND YEAR			
Animal Husbandry, 3 †2.....	4	Animal Husbandry, 3 †2.....	4
English	2	English	2
Farm Chemistry.....	3	Farm Management, 3 *3.....	4
Farm Crops.....	2	Forestry	2
Farm Engineering and Me- chanics 1 *3.....	2	Insects	2
Poultry Husbandry.....	2	Poultry Husbandry.....	2
Vegetable Gardening, 3 *3.....	4	Small Fruit Culture and Plant Propagation, 3 *3.....	4
Veterinary Science.....	3	Veterinary Science.....	3

Short Winter Courses in General Agriculture, Dairying, Horti- culture, and Poultry Management

The short courses in general agriculture deal especially with farm crops. Special attention is given to the potato, corn, oat, and hay crops,—the preparation of seed bed, selection of seed, seeding, fertilization, culture, and harvesting. Such general subjects as drainage, maintenance of soil fertility, rotation of crops, control of weeds, etc., are considered. Potato, corn, and grain judging is made a prominent feature.

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The short course in dairying is designed to meet the requirements of creamery assistants, practical farmers, herdsmen, and others who desire to learn milk testing, butter making, the principles of animal nutrition, and practices of feeding, breeding, judging stock, and the diseases of farm animals.

The short course in horticulture is offered for those who wish to acquaint themselves with the most approved methods of orchard management. Special attention will be given to such subjects as the selection of orchard sites, selecting and obtaining nursery stock, pruning, cultivation, spraying, packing, and cooperation in the fruit business. Opportunity will be given for the laboratory study of spraying, packing, planting, pruning, and grafting. An effort is made to show where money is lost and made in the fruit business.

The short course in poultry management is given each year to aid persons who wish to gain a practical knowledge of the handling of incubators and brooders, the feeding and rearing of young chicks, the general management of mature fowls, scoring, judging, killing, and marketing. For purposes of instruction the College of Agriculture keeps representatives of leading breeds of fowls.

Very few text-books are used in any of the courses and the expenses for board and room, which are the only other expenses, are moderate. Circulars giving the dates and programs of these courses are published each year and will be sent upon application to the College of Agriculture.

Farmers' Week

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farmers' Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. A section is arranged where home economics for farmers' wives is taught. Dates and programs may be secured each year by addressing the College of Agriculture.

Department of Agricultural Extension

This department offers correspondence courses, lecture courses, demonstration work, cooperative experiments, and extension schools in agriculture.

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This work is intended to give direct help to those on the farm and in the home; to aid those who desire definite instructions in practical agriculture, animal and dairy husbandry, poultry husbandry, home economics, forestry, and horticulture. It supplements the teaching and experimenting of the College of Agriculture and the Agricultural Experiment Station. It is professedly a popular work because it endeavors to aid the farmer to solve the practical problems of the farm, to quicken agricultural work, and to inspire greater interest in country life.

Correspondence Courses

These courses are given by means of text-books and publications of the college, the U. S. Department of Agriculture, or the various experiments stations. The text-books are furnished at publishers' prices. The courses are free and may be taken by individuals, granges, reading circles, or other organizations. A certificate will be given to students completing any of these courses with satisfactory standing.

The following courses are offered:

- Course 1—Farm Crops and Crop Production
- Course 2—Farm Management
- Course 3—Feeding and Breeding of Farm Animals and Dairying
- Course 4—Poultry Keeping
- Course 5—Fruit Growing
- Course 7—Elementary Agriculture
- Course 8—Home Economics
- Course 9—Vegetable Gardening
- Course 10—The Business of Dairying

Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Demonstration Work

For this work members of the agricultural faculty will make demonstrations, showing, as well as telling, how to solve many practical farm

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problems. These demonstrations are made on the farms and are offered under the same conditions as the lectures.

The following is a practical list of the demonstrations that may be secured: home mixing of fertilizers; milk testing (use of Babcock tester); stock judging; corn and small grain judging and breeding; potato judging, breeding, and spraying; orchard spraying, pruning, and grafting; apple packing; method of killing and dressing poultry; method of determining the age of horses; methods of giving medicine to domestic animals. All demonstrations are accompanied by lectures.

Farm Demonstration Work

This form of extension service consists of practical demonstrations of farming operations, of the values of various projects, and of proper equipment in the farming business.

The demonstration work is now established in thirteen counties, with every prospect of spreading to the remaining counties in the State within a few years.

Boys' and Girls' Agricultural Clubs

The organization of junior agricultural and home economics clubs was begun in 1913, under the direction of the Extension Department, with State leaders in active charge of the field work. The club work is conducted very largely in cooperation with the schools, granges, and the Y. M. C. A. county work. It will be extended thruout the State as rapidly as possible. Local exhibits will be held the present year and the winners at these exhibits will compete later in a State contest to be held at the College of Agriculture.

Extension Schools in Agriculture

To extend the advantages of agricultural instruction to persons actively engaged in agriculture, the Extension Department will conduct a limited number of three-day schools in various parts of the State.

Correspondence

Besides the Demonstration, Correspondence, and Lecture Courses, the College of Agriculture welcomes correspondence on practical farm

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topics. If information is desired along lines relating to crops, fertilizers, dairy work, feeding, or orcharding and gardening, the various instructors are ready to give such assistance as they are able.

A free "Extension Bulletin," dealing with agricultural and home economics subjects, is issued at frequent intervals thruout the year. This bulletin is sent to all persons whose names appear on the bulletin mailing list and to such other persons as may apply for the same.

Circulars giving full information upon these subjects will be sent upon request.

DEPARTMENTS OF INSTRUCTION

NOTE.—A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (‡) indicates that two and one-half hours are required. *Courses having an odd number are given in the fall semester and those having an even number in the spring semester.*

If the student so elects, he may prepare a thesis upon some subject related to his major work. The subject should be selected and approved by the head of the department before the close of the junior year.

AGRONOMY

PROFESSOR SIMMONS; ASSISTANT PROFESSOR OSLER; MR SINK

Soils

For undergraduates only

1. SOILS.—Lectures and recitations on the origin, types, physical properties, moisture content, and distribution of soils, and their relation to crop production. The fundamental principles underlying soil management for soil conservation and improvement will be studied. Class room, *two hours a week*; laboratory, **three hours a week*.

3 SOIL FERTILITY.—This course deals with stable manures, green manures, commercial fertilizers, and soil amendments; also a study of soil organisms as affecting the plant food in the soil. *Two hours a week*.

For graduates and undergraduates

52. SOIL SURVEYING AND MAPPING.—A study is made of soil types, the principles of correlation and methods of soil surveying and mapping. Class room, *two hours a week*; laboratory, **three hours a week*.

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54. SOIL FERTILITY.—Soil improvement investigation. A review of the experimental work in this country and abroad. The application of these results to soil improvement and crop production problems. Prerequisites, Courses 1 and 3. *Two hours a week.*

Crops

For undergraduates only

11. FIELD CROPS.—A laboratory course in seed and grain identification, improvement by grading, testing, selecting, and preparing seed for planting. A collection of weeds and their seeds will be required. †*Four hours a week.*

12. FIELD CROPS.—A general course including a study of the most important cereal, grass, forage, and root crops, their adaptation to systems of rotation, culture and uses, with special reference to New England conditions. Class room, *two hours a week*; laboratory, †*two hours a week.*

13. FIELD CROPS. JUDGING AND COMMERCIAL GRADING.—Comparative judging of corn, small grains, and potatoes, according to standards. A study of market grade requirements. Class room, *one hour a week*; laboratory, †*two hours a week.*

14. FIELD CROPS. CORN.—A course dealing with the production of corn and the care and marketing of the crop. Types and varieties of both field and sweet corn will be considered in this course. Class room, *one hour a week*; laboratory, †*two hours a week.*

15. FIELD CROPS. ROOTS AND TUBERS.—A course dealing with the production, storage, and marketing of roots and tubers. Class room, *one hour a week*; laboratory, †*two hours a week.*

16. FIELD CROPS. GRASSES AND FORAGE CROPS.—Lectures and laboratory work dealing with the grasses and forage plants. A study of the hay crop and markets; soiling systems, and their adaptation to local conditions. Class room, *one hour a week*; laboratory, †*two hours a week.*

18. FIELD CROPS. CROP IMPROVEMENT.—A study of the principles and methods involved in field crop improvement. The work of experi-

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ment stations in this country and abroad is reviewed. Prerequisites, Courses 11 and 12. *Two hours a week.*

For graduates and undergraduates

62. SYSTEMATIC FIELD CROPS.—A course designed for advanced or graduate students preparing for experimental work, teaching, or plant breeding. Students will be expected to grow and collect material under the supervision of the department during the summer months. Prerequisite, adequate training in botany and field crops. Time must be arranged with the instructor not later than the middle of the junior year. *Two or more hours a week.*

63. SYSTEMATIC FIELD CROPS.—A continuation of Course 62. *Two or more hours a week.*

65. SEMINAR.—A study of recent literature, problems, and experiments pertaining to agronomy and farm management. *One hour a week.*

66. SEMINAR.—A continuation of Course 65. *One hour a week.*

67, 68. THESIS.—*Three hours a week.*

ANIMAL INDUSTRY

PROFESSOR CORBETT; MR. THOMAS; MR. SHERWOOD; MR. RICHARDSON

Animal and Dairy Husbandry

For undergraduates only

2. TYPES AND BREEDS OF FARM ANIMALS.—A study of the types and breeds of farm animals. A course covering the history, development, and characteristics of farm animals. *Two hours a week.*

3. CARE, FEED, AND MANAGEMENT OF LIVE STOCK.—A course dealing with the selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Prerequisites, Courses 2 and 4. *Two hours a week.*

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4. LIVE STOCK JUDGING.—This course is designed to acquaint the students with the types and breed characteristics of farm animals, by use of the score card, comparative judging, and the selection of breeding stock. To be taken in connection with Course 2. †*Two hours a week.*

5. LIVE STOCK JUDGING.—A continuation of Course 4. †*Two hours a week.*

6. LIVE STOCK FEEDING.—A study in the general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, calculating rations, methods of feeding for economic production. Prerequisites, Course 3, Biochemistry 1 and 2. *Two hours a week.*

7. GENERAL DAIRYING.—Given by lectures, assigned readings, recitations, and laboratory practice. Milk; its secretion, composition, properties, pasteurization, separation; dairy practices in handling milk and cream, dairy equipment, use of common dairy machinery; preparation of starters; test of dairy products for fat (Babcock method), acidity, total solids, common adulterations, and preservatives. Class room, *two hours a week*; laboratory, †*four hours a week.*

8. BUTTER MAKING.—Lectures and laboratory practice in starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 7. Class room, *one hour a week*; laboratory, †*six hours a week.*

9. CHEESE MAKING.—Lectures, recitations, and laboratory practice in the manufacture and curing of various types of cheese, including Cheddar and soft cheeses adapted to the New England trade. The laboratory work requires consecutive hours. Prerequisite, Course 7. Class room, *two hours a week*; laboratory, **six hours a week.*

For graduates and undergraduates

51. DAIRY TECHNOLOGY.—A study of dairy products; dairy by-products; factory machinery and operations; certified milk; markets and marketing; educational work with dairymen. Given by lectures, recitations, assigned readings, and round table conferences. Prerequisite, Course 7. *Three hours a week.*

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52. **ADVANCED LIVE STOCK JUDGING AND MANAGEMENT.**—A laboratory course in which the individual student gets experience in handling live stock and preparation of stock for the show ring and market. As far as possible, visits will be made to live stock farms. †*Two hours a week.*

53. **ADVANCED LIVE STOCK FEEDING AND MANAGEMENT.**—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in the production of milk, meat, and the rearing of horses, are studied. *Two hours a week.*

54. **ADVANCED ANIMAL BREEDING.**—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records by the use of the different herd books; an economic study of the generative systems of domestic animals. Prerequisites, Course 3, and Veterinary Science 6. *Two hours a week.*

55, 56. **THESIS.**—*Three hours a week.*

58. **ICE CREAM MAKING.**—Lectures and recitations on the history and methods of the manufacture of ice cream and ices. Laboratory practice in the manufacture of ice cream and ices. Prerequisite, Course 51. Class room, *one hour a week*; laboratory, *three hours a week.*

Poultry Husbandry

For undergraduates only

1. **TYPES, BREEDS, AND MANAGEMENT OF POULTRY.**—Lectures and recitations on the origin and development of the types, breeds, and varieties of fowl, ducks, geese, and turkeys; the general care, feed and management of farm poultry; the marketing of poultry products. Laboratory exercises include practice in poultry management, poultry judging, and the preparation of poultry products for market. Class room, *two hours a week*; laboratory, †*two hours a week.*

2. **TYPES, BREEDS, AND MANAGEMENT OF POULTRY.**—A continuation of Course 1. Class room, *one hour a week*; laboratory, †*two hours.*

3. **COMMERCIAL POULTRY FARMING.**—Lectures and recitations on the business of poultry farming; the systems and operations in use on large

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poultry farms; the planning of specialized poultry farms. Class room, *one hour a week*; laboratory, †*two hours a week*.

4. **POULTRY FEEDING.**—Lectures and recitations on the general principles of nutrition as applied to poultry; poultry feeds; calculating rations; estimating cost of feeds and feeding, and methods of feeding for economical production. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, †*two hours a week*.

5. **POULTRY LITERATURE.**—A study of experimental data on poultry management. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*.

6. **INCUBATION AND BROODING.**—Lectures and recitations on the principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisites, Courses 1 and 2. Class room, *three hours a week*; laboratory, †*two hours a week*.

NOTE. During incubation period, extra time will be required.

7. **POULTRY BREEDING.**—Lectures and recitations on the principles of breeding as applied to poultry; the inheritance of egg production; systems of breeding stock. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*; laboratory, †*two hours a week*.

For graduates and undergraduates

51, 52. **THESIS.**—*Three hours a week*.

BACTERIOLOGY AND VETERINARY SCIENCE

PROFESSOR RUSSELL; ASSISTANT PROFESSOR SMITH

For undergraduates only

1. **BACTERIOLOGY.**—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and the study of the morphological and biological characteristics of typical bacteria. Some outside reading will be required. Required of students taking major work in Agriculture. †*Six hours a week*.

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2. BACTERIOLOGY.—Similar to Bacteriology 1. Offered for students in the College of Technology and others who may elect it. †*Six hours a week.*

3. BACTERIOLOGY.—A lecture course open to all students. It should be elected by students taking Course 1 as well as by students not taking a laboratory course. Subjects considered will include the history of bacteriology; classification and biological characteristics of bacteria, bacteria in air, water, soil, and dairy products; the relation of bacteria to health and disease; immunity. *Two hours a week.*

12. VETERINARY SCIENCE.—This deals with the anatomy, physiology, and diseases of poultry. *Two hours a week.*

14. VETERINARY SCIENCE.—A combined lecture and laboratory course dealing with the anatomy and physiology of our domestic animals, and their treatment to preserve and restore health. *Three hours a week.*

15. VETERINARY SCIENCE.—A continuation of Course 14. *Two hours a week.*

16. VETERINARY SCIENCE.—A clinic open to all students taking veterinary science. *One hour a week.*

17. VETERINARY SCIENCE.—A continuation of Course 16. *One hour a week.*

19. VETERINARY SCIENCE.—Veterinary materia medica and pharmacy. *Two hours a week.*

For graduates and undergraduates

52. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; investigation into the sources of milk bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week*; laboratory, †*four hours a week.*

53. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; a study of soil bacteria. Prerequisite,

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Course 1 or 2. Class room, *one hour a week*; laboratory, †*four hours a week*.

54. BACTERIOLOGY.—A course which will consider such dairy experiments as the effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisite, Course 52. †*Four to six hours a week*.

55. BACTERIOLOGY.—An experimental consideration of ammonification, nitrification, and denitrification in the soil; study of relation of bacteria to soil fertility; symbiosis. Prerequisite, Course 52. †*Four to six hours a week*.

56. BACTERIOLOGY.—Lectures and reference work upon various phases of sanitary milk production; relation of microorganisms to butter and cheese; discussion of the effect of various dairy operations upon quality of dairy products. Open only to students taking Course 54. Prerequisite, Course 52. *Two hours a week*.

57. BACTERIOLOGY.—Lectures and reference work upon various problems relating to bacteria and soil fertility; discussion of ammonification, nitrification and denitrification in the soil; a consideration of symbiosis. Open only to students taking Course 55. Prerequisite, Course 53. *Two hours a week*.

Primarily for graduates

101-102. BACTERIOLOGY.—This is a laboratory course for students who desire to pursue some particular line of bacteriological investigation. Open only to students who have done considerable work in bacteriology. The kind of work and the time will be arranged to suit individual students.

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BIOLOGICAL AND AGRICULTURAL CHEMISTRY

PROFESSOR MERRILL; MR. PATTERSON

For undergraduates only

1. **BIOCHEMISTRY.**—Lectures and recitations on the composition of the plant; the source, nature and assimilation of plant food; fermentation, its nature, effects, and control. *Two hours a week.*

2. **BIOCHEMISTRY.**—A continuation of Course 1. The composition of the animal body and of food materials; the adaptation of food to animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy. Class room, *three hours a week*; laboratory, *†four hours a week.*

3. **ECONOMIC GEOLOGY.**—A course in applied geology, including a general survey of our mineral resources, with special reference to the mineral fuels; the distribution and manner of occurrence of the more useful metals; the economically important nonmetallic minerals; and a study of the rocks and their uses as building stone, as road material, and as sources of lime and cement. *Two hours a week.*

5. **GEOLOGY.**—A study of the earth's history and development, with especial attention to dynamical, structural, and physiographical geology. *Three hours a week.*

6. **AGRICULTURAL CHEMISTRY.**—This course includes a study of the origin and composition of soils; the source and composition of fertilizing materials; the fixation of atmospheric nitrogen; the composition of insecticides and fungicides; the chemistry of milk and other dairy products. Prerequisite, Course 1. *Two hours a week.*

7. **BIOCHEMISTRY.**—An abridged course, including a study of the proteins, fats, and carbohydrates, the digestive enzymes and processes, the tissues and secretions of the body. Class room, *three hours a week*; laboratory, *†four hours a week.*

8. **FOOD ANALYSIS.**—A brief introduction to quantitative analysis, with laboratory practice in the analysis of foods; lectures on food

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adulteration and methods for its detection. Class room, *one hour a week*; laboratory, *†six hours a week*.

For graduates and undergraduates

51. **BIOCHEMISTRY.**—Lectures and recitations on the composition of the plant; the source, nature, and assimilation of plant food; the composition of the animal body and of food materials; the adaptation of food to the animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy; general metabolism; the chemical processes and methods of investigation by which these subjects are studied. Prerequisite, Chemistry 52. *Five hours a week*.

52. **LABORATORY BIOCHEMISTRY.**—A study of the carbohydrates, fats, and protein bodies; the digestive enzymes; the blood muscles, bones, and other tissues of the body; milk, bile, and other secretions. A continuation of the preceeding course. *†Four hours a week*.

60. **AGRICULTURAL ANALYSIS.**—A course in the qualitative and quantitative analysis of fodders, fertilizers, milk, butter, and other dairy products. The course is designed for students desiring to take up experiment station and inspection work. Prerequisites, Chemistry 53 and 60. *†Ten hours a week*.

BIOLOGY

The courses in this department are described under the College of Arts and Sciences.

FARM MANAGEMENT AND AGRICULTURAL ENGINEERING

PROFESSOR SIMMONS; MR. SINK

For undergraduates only

2. **FARM ACCOUNTING.** (a) **FARM MATHEMATICS.**—Instruction in this subject consists in the application of its principles to all kinds of farm

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problems where measurements of material, extension, capacity, etc., are required.

(b) **FARM RECORDS AND ACCOUNTS.**—A system of records of the various operations of the farm, such as records of field labor, crop yields, milk production in the dairy, etc.; a system of accounts showing the receipts and expenditures of the farm. †*Four hours a week.*

For graduates and undergraduates

71. AGRICULTURAL ENGINEERING AND RURAL ARCHITECTURE.

(a) **AGRICULTURAL ENGINEERING.**—Farm surveying and leveling; the plotting of farms and measurements of land; a study of drainage; estimating the investment and returns from a system of drainage; the making of roads; road materials.

(b) **RURAL ARCHITECTURE.**—The planning, designing, location, and construction of farm buildings, water systems, sewerage, and concrete construction. Class room, *two hours a week*; laboratory, **three hours a week.*

72. **FARM MECHANICS AND MACHINERY.** (a) **FARM MECHANICS.**—A study of the simpler laws of mechanics as applied to farm implements and farm machinery.

(b) **FARM MACHINERY.**—A study of machinery used on the farm, farm power, etc. Demonstrations and tests are made with various machines and implements. Class room, *two hours a week*; laboratory, **three hours a week.*

73. **HISTORY AND ECONOMICS OF AGRICULTURE.** (a) **HISTORY OF AGRICULTURE.**—A history of agriculture from early times to the present day; the beginning of British agriculture, and the development of modern agriculture; the agriculture of the United States, its influence on social conditions; the importance of our leading products, and their effect on the world's commercial life; the agriculture of different sections; the development of farm machinery; progress in agricultural education. Lectures supplemented by illustrative material and slides.

(b) **ECONOMICS.**—The factors of agricultural production, and their economic properties; organization of the farm; rent of farm land and the law of diminishing returns from the land; systems of distribution;

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a study of life in the rural communities; schools and other rural organizations. Class room, *two hours a week*; laboratory. †*two hours a week*.

74. FARM MANAGEMENT.—A study of the various types of farming, with comparison of investment and returns from each. A study will be made of the conditions under which extensive, intensive, and mixed systems of farming prosper or fail; laying out of fields and rotations of crops; investigation of cost of different farming operations; management of men and teams; markets and marketing. Farm surveys, with a detailed study of the conditions on different farms, will be made. Farm plans will be outlined to suit various conditions. Class room, *two hours a week*; laboratory. **three hours a week*.

FORESTRY

PROFESSOR BRISCOE; ASSOCIATE PROFESSOR EATON

1. ECONOMICS OF FORESTRY.—The importance and scope of the subject; the influence of forests on the conservation and distribution of water; influence on soils, topography, and public health; the relation to agriculture; stock raising, mining, railroads, manufactures, and industries in general; the character, extent and distribution of forest resources, national, state, and private. Required of all freshmen majoring in forestry, and open to all students. *Two hours a week*.

2. WOODLOT FORESTRY.—The general principles of forestry, with special application to the farm woodlots in this region. Lectures and text-book work in elementary systems of cutting, reforestation, protection, and estimating. Open to all students. *Two hours a week*.

3. WOOD IDENTIFICATION AND USES.—The identification and classification of the economic woods of the United States, based on simple lens inspection; the technical qualities of various species, and their uses in the arts and trades; their commercial production. *Two hours a week*.

4. WOOD PRESERVATION.—Durability and seasoning of native woods; preservatives in commercial use; methods of operation and equipment of preserving plants. Special attention given to ties, posts, poles, paving-blocks, and timbers. Second half of semester. *Two hours a week*.

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5. HISTORY OF FORESTRY.—The development of forestry in European countries and in the United States. Second half of semester. *Two hours a week.*

6. FOREST MENSURATION.—Continuation of study of estimating methods taken up in Course 11; study of age, growth, yield, and taper; form factors and volume tables. *Two hours a week.*

8. FOREST MENSURATION FIELD WORK.—To be taken in connection with Course 6. Use of instruments, scaling, and estimating. **Six hours a week.*

9. FOREST PRODUCTS.—Dealing with forest products other than logs and lumber, such as pulp wood, veneers, shingles, lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods, box-boards, spool stock, turpentine, tanin, gums, syrups, dye woods, and charcoal; methods of utilization, markets and values. First half of semester. *Two hours a week.*

10. FOREST PROTECTION.—Systems of fire protection practiced by the federal government, state governments, and individuals or associations; protection against atmospheric agencies, insect damages, grazing and animals, parasite plants and weeds. *One hour a week.*

11. FOREST MENSURATION.—Lectures and recitations. Instructions in the theory and application of forest measurements. Calculations and computations from data obtained in the field work. *Two hours a week.*

12. PRACTICE OF FORESTRY.—Applied systems of silviculture and management considered in relation to the commercially important species and types of forest in the United States; discussions of management as practiced in Europe, and the adaptation of these systems to conditions in this country. Open to forestry seniors only. *Two hours a week.*

13. FOREST MENSURATION FIELD WORK.—To be taken in connection with Course 11. Collection of data for the study of age, growth, yield, taper, and volume; determination of form factors; survey and forest map of an assigned tract. **Six hours a week.*

14. FOREST MANAGEMENT.—Construction of a working plan for a large area of forest land; map making, timber estimating, and growth

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studies, in connection with plans for the same. Open to seniors only.
**Six hours a week.*

15. **SILVICULTURE.**—A study of the factors concerning forest growth and the relation of trees to external environment; study of the forest as a whole; characteristics of the forest and of forest regions of the United States. Prerequisites, Biology 61, 62, 67, and 68. *Two hours a week.*

16. **SILVICULTURE.**—Cultural measures in the forest; thinnings, cuttings, methods of reproduction both natural and artificial; planting. *Two hours a week.*

17. **SILVICULTURE FIELD WORK.**—Special studies and practical work in the forest; preparation of a type map and detailed reports on silvicultural problems. To be taken in connection with Course 15. **Six hours a week.*

18. **NURSERY PRACTICE.**—To be taken in connection with Course 16. Tests of the germinating qualities of seeds of forest trees and a study of seedlings; problems in planting and practical work in the State Forest Nursery; practice in field planting. **Six hours a week.*

19. **LUMBERING.**—The lumber industry in the United States considered from the economic standpoint; an account of the methods of logging and manufacture in different regions. Text books and lectures. *Two hours a week.*

20. **FOREST FINANCE.**—Business principles applied to forest management. The theory of the normal forest; calculations for sustained yield and continuous revenue. Lectures, recitations, and problems. *Two hours a week.*

21. **LUMBERING FIELD WORK.**—To be taken with Course 19. Inspection of lumber and pulp mills in the vicinity, during the first half of the semester. Inspection, detailed study, and report of an assigned operation. In this work the student is expected to spend at least six ten-hour days actual work on a lumbering job in the woods. **Six hours a week.*

22. **CURRENT FORESTRY LITERATURE.**—A continuation of Course 23. *One hour a week.*

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23. **CURRENT FORESTRY LITERATURE.**—Reviews of periodicals and current forestry literature; preparation of a card index under subject and author headings. Forestry seniors only. *One hour a week.*

24. **FOREST POLICY.**—National and state forest policy and administration; relation of government, corporations and individuals in regard to forest policies and applied forest management. Forestry seniors only. Second half of semester. *Two hours a week.*

25, 26. **THESIS.**—Credit of from 2 to 6 hours will be allowed students desiring to elect thesis work in forestry. Work on original problems and investigations may be undertaken with the approval of the department. Time to be arranged.

28. **FORESTRY LAWS.**—Laws of the federal government and of the several states concerning forests and forestry. Given in 1916-17 and alternate years. *Two hours a week.*

HOME ECONOMICS

PROFESSOR FREEMAN; ASSISTANT PROFESSOR WHITCOMB; MISS KNIGHT;
MISS MCGINNIS

For undergraduates only

1, 2. **TEXTILES AND CLOTHING.**—A study of fibers and fabrics from a historic, economic, and social standpoint. The laboratory work consists of the making of plain garments, involving drafting and design, and selection of materials. Class room, *one hour a week*; laboratory, *†four hours.*

3, 4. **DESIGN AND COLOR.**—The object is to develop the appreciation of harmony of line, space, and color. Class room, *one hour a week*; laboratory, *†two hours a week.*

5, 6. **FOODS.**—A study of food composition, cost, and the principles involved in preparation. The laboratory work consists in the preparation of the various types of foods. Prerequisites, Chemistry 1 or 3, 5, 2 or 4, and 6. Class room, *two hours a week*; laboratory, *†four hours a week*

7. **DRESS.**—Economics, hygiene, design, and color are studied in their relation to dress. The laboratory work consists in designing and

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drafting of pattern, selection of materials, and the making of dresses. Prerequisites, Courses 1, 2, 3, and 4. Class room, *two hours a week*; laboratory, *†four hours a week*.

8. DRESS.—A continuation of Course 7. Laboratory, *†six hours a week*.

9. SANITATION.—The situation of the house regarding general surroundings; sanitary conditions in and around the house, ventilation, water supply, heating, and plumbing; the householder's interest in public sanitation and hygiene. Prerequisites, Bacteriology 1 and 3. Class room, *three hours a week*.

10. DIETETICS.—The chemical, economic, and physiological principles of human nutrition are studied. Prerequisites, Courses 5 and 6, and Biochemistry 7. Class room, *three hours a week*; laboratory, *†four hours a week*.

11. FOODS.—Problems in the preparation and serving of foods. A continuation of courses 5 and 6. Class room, *one hour a week*; laboratory, *†four hours a week*.

12. HOUSEHOLD MANAGEMENT.—A study of economic and social principles of the household; organization of the household; division of income, labor, household processes; care of the household. Open to seniors. Class room, *three hours a week*; laboratory, *†two hours a week*.

13. HANDWORK.—Historical and social development of textile industry from primitive man to modern times. Prerequisites, Courses 1 and 2. Laboratory, *†four hours a week*.

14. NURSING.—Personal hygiene; the practical application of bacteriology and physiology in health and disease; the care of the baby; first aid to the injured. Prerequisites, Bacteriology 1 and 3, and Biology 5. *Two hours a week*.

16. TEACHERS' COURSE.—Methods of presenting the work and its correlation with other subjects. Practice in planning courses of study and equipment. Open to seniors. *Three hours a week*.

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17. HOUSE CONSTRUCTION AND FURNISHING.—The evolution of the house, of house furnishings, their color, design, and cost. The laboratory work consists in the planning of the house, making plans and estimates for house furnishings, and visiting shops. Also the designing and making of accessories in furnishing and decorating the house. Prerequisites, Courses 1, 2, 3, and 4. Class room, *one hour a week*; laboratory, *†four hours a week*.

18. HOUSE CONSTRUCTION AND FURNISHING.—A continuation of Course 7. Class room, *one hour a week*; laboratory, *†four hours a week*. school.

19, 20. THESIS.—Different phases of home economics. Individual problems. Open to seniors. *Two to four hours a week*.

HORTICULTURE

PROFESSOR BROWN; ASSISTANT PROFESSOR SWEETSER; MR. MULLER

For undergraduates only

1. COMMERCIAL POMOLOGY.—A course in methods of picking, grading, packing, storing, and marketing fruit. The laboratory work of this course will acquaint the student with the more important varieties of fruit in this State. Class room, *two hours a week*; laboratory, *†two hours a week*.

2. PRACTICAL POMOLOGY.—A study of orchard sites and soils, methods of propagating, setting, cultivating, fertilizing, pruning, and spraying. Class room, *two hours a week*; laboratory, **three hours a week*.

3. SYSTEMATIC POMOLOGY.—A systematic study of the types and varieties of the leading groups of fruits, their evolution and adaptation to environment; also distribution of varieties in the State. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *†two hours a week*.

4. VEGETABLE GARDENING.—A course in practical vegetable gardening; grading, marketing, and storing of vegetables, including the system-

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atic study of varieties and types for home and commercial use. Class room, *two hours a week*; laboratory, †*two hours a week*.

5. LANDSCAPE GARDENING.—A study of the principles of landscape art and of the materials used in making landscape pictures. Special attention is given to the improvement of the home grounds. Class room, *two hours a week*; laboratory, †*two hours a week*.

7. GENERAL FLORICULTURE.—A study of the culture, propagation, management, and care of flowers for commercial purposes. Methods of producing, shipping, marketing, and designing, will be considered. Class room, *two hours a week*; laboratory, †*two hours a week*.

8. GREENHOUSE CONSTRUCTION.—A study of the various types of greenhouses and the methods of construction. Estimates and plans are made for houses suitable for conservatories, private estates, and commercial floriculture. Cost and methods of installing heating systems, show rooms, and storage houses are also considered. Class room, *two hours a week*; laboratory, †*two hours a week*.

9. SMALL FRUIT CULTURE.—A study of the bush and vine fruits, including strawberries; adapted varieties; methods of propagation, culture, harvesting, and marketing. Class room, *two hours a week*; laboratory, †*two hours a week*.

10. PLANT BREEDING.—A course in plant breeding, as applied to variation, selection, and hybridization, adapted to garden and fruit crops. Prerequisite, Biology 3. *Two hours a week*.

11, 12. THESIS.—*Three hours a week*.

For graduates and undergraduates

51. SEMINAR.—Preparation and discussion of papers dealing with the recent problems and experiments in horticulture. Required of students taking major work in Horticulture. Prerequisites, Courses 1 and 2. *One hour a week*.

52. SEMINAR.—A continuation of Course 51. Requirements and prerequisites the same. *One hour a week*.

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54. **FLORICULTURE.**—A course designed to give practical knowledge of the propagation and culture of annuals, herbaceous perennials, bulbs, roses, bedding plants, and other garden plants, with especial reference to care of public parks and private estates. Class room, *two hours a week*; laboratory, *†two hours a week*.

55. **FRUITS AND VEGETABLES UNDER GLASS.**—A study of the various fruits and vegetables that are grown under glass. A course suited to the needs of either commercial work or private estates. Prerequisites, Course 1. Class room, *two hours a week*.

56. **PLANT DISEASE CONTROL.**—A course designed to acquaint the student with the various kinds and types of spray machinery, and with the preparation and application of the various sprays used in disease control. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, *†two hours a week*.

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COLLEGE OF ARTS AND SCIENCES

FACULTY OF INSTRUCTION

JAMES STACY STEVENS, M. S., LL. D.	<i>Professor of Physics</i>
DEAN	
LUCIUS HERBERT MERRILL, Sc. D.	<i>Professor of Biological Chemistry</i>
JAMES NORRIS HART, C. E., M. S., Sc. D.	<i>Professor of Mathematics and Astronomy</i>
JOHN HOMER HUDDLSTON, Ph. D.	<i>Professor of Greek and Classical Archeology</i>
RALPH KNEELAND JONES, B. S.	<i>Librarian</i>
JACOB BERNARD SEGALL, Ph. D.	<i>Professor of French</i>
GEORGE DAVIS CHASE, Ph. D.	<i>Professor of Latin</i>
CAROLINE COLVIN, Ph. D.	<i>Professor of History</i>
WALLACE CRAIG, Ph. D.	<i>Professor of Philosophy</i>
ROLAND PALMER GRAY, A. M.	<i>Professor of English</i>
GARRETT WILLIAM THOMPSON, Ph. D.	<i>Professor of German</i>
GUY ANDREW THOMPSON, Ph. D.	<i>Professor of English Literature</i>
WINDSOR PRATT DAGGETT, Ph. B.	<i>Professor of Public Speaking</i>
MINTIN ASBURY CHRYSLER, Ph. D.	<i>Professor of Biology</i>
GEORGE WARE STEPHENS, Ph. D.	<i>Professor of Economics and Sociology</i>
ANDREW PAUL RAGGIO, Ph. D.	<i>Professor of Spanish and Italian</i>
ROY FRANKLIN RICHARDSON, Ph. D.	<i>Professor of Education</i>
CHARLES WILSON EASLEY, Ph. D.	<i>Professor of Chemistry</i>
LEON ELMER WOODMAN, Ph. D.	<i>Associate Professor of Physics</i>
HARLEY RICHARD WILLARD, Ph. D.	<i>Associate Professor of Mathematics</i>
ALICE MIDDLETON BORING, Ph. D.	<i>Associate Professor of Zoology</i>
JAMES MCCLUER MATTHEWS, A. M.	<i>Associate Professor of Economics and Sociology</i>
DANIEL WILSON PEARCE, A. M.	<i>Associate Professor of Education</i>
ROBERT RUTHERFORD DRUMMOND, Ph. D.	<i>Associate Professor of German</i>
TRUMAN LEIGH HAMLIN, M. A.	<i>Assistant Professor of Mathematics</i>

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HARRY NEWTON CONSER, M. S., M. A.	<i>Assistant Professor of Botany</i>
LLOYD MEEKS BURGHART, M. A.	<i>Assistant Professor of Chemistry</i>
ALBERT GUY DURGIN, M. S.	<i>Assistant Professor of Chemistry</i>
LOWELL JACOB REED, M. S.	<i>Assistant Professor of Mathematics</i>
RALPH MAYNARD HOLMES, M. A.	<i>Assistant Professor of Physics</i>
JOSEPH NEWELL STEPHENSON, M. S.	<i>Assistant Professor of Chemistry</i>
BURNETT OLCOTT McANNEY, A. B., B. Lit.	<i>Assistant Professor of English</i>
FRANÇOIS JOSEPH KUENY, L és L.	<i>Assistant Professor of French</i>
JOHN WILLARD KIMBALL, Ph. D.	<i>Assistant Professor of Chemistry</i>
WILLIAM SAMUEL KREBS, M. A.	<i>Assistant Professor of Economics and Sociology</i>
WARREN WHITTEMORE REED, A. M.	<i>Assistant Professor of English</i>
ADELBERT WELLS SPRAGUE, A. M.	<i>Director of Music</i>
RAYMOND FLOYD, B. A.	<i>Instructor in German</i>
SIDNEY WINFIELD PATTERSON, B. S.	<i>Instructor in Agricultural and Biological Chemistry</i>
HARRY GILBERT MITCHELL, A. M.	<i>Instructor in Chemistry</i>
ROSCOE WOODS, M. A.	<i>Instructor in Mathematics</i>
HARRY CHAMBERLAIN BROWN, B. S.	<i>Instructor in Physics</i>
CHESTER HAMLIN GOLDSMITH, B. S.	<i>Instructor in Chemistry</i>
MYER SEGAL, A. M.	<i>Instructor in German</i>
THOMAS WILLIAM SHEEHAN, M. A.	<i>Instructor in English</i>
ALBERT AMES WHITMORE, B. S.	<i>Instructor in History</i>
HENRY VIGOR CRANSTON, B. S.	<i>Instructor in Public Speaking</i>
MARGARET JUNE KELLEY, B. A.	<i>Instructor in German</i>
ABRAHAM STRAUSS, B. Sc.	<i>Instructor in Botany</i>
JOHN LEONARD ROBERTS, A. B.	<i>Instructor in Mathematics</i>
PAUL HENRY AXTELL, A. B.	<i>Instructor in English</i>
EDWIN KNIGHT BUTTOLPH, A. M.	<i>Instructor in Spanish</i>
RAYMOND VON DERSMITH GABLE, A. M.	<i>Instructor in Spanish and Italian</i>
ROBERT ORLAND HUTCHINSON, A. B.	<i>Instructor in Physics</i>
MARSHALL MILLER, Ch. E.	<i>Instructor in Chemistry</i>
ANTON ADOLPH RAVEN, Jr., A. B.	<i>Instructor in English</i>
CHARLES BUNSEN SHAW, A. M.	<i>Instructor in English</i>
LESTER FRANK WEEKS, B. S.	<i>Instructor in Chemistry</i>
PERCY BARNETTE WILTBERGER, M. Sc.	<i>Instructor in Entomology</i>
NORBERT WIENER, Ph. D.	<i>Instructor in Mathematics</i>
AVA HARRIET CHADBOURNE, B. A.	<i>Assistant in Education</i>
DONALD VINCE ATWATER, B. S.	<i>Assistant in Biology</i>

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GENERAL INFORMATION

The College of Arts and Sciences offers a course of liberal training equivalent to that of the standard New England college. It designs particularly to meet the needs of three classes of students:

1. Men and women who desire to pursue a cultural college course.
2. Men and women who desire to enter professional schools.
3. Men and women who plan to fit themselves for the profession of teachers in secondary schools, or for school superintendencies.

ADMISSION

The requirements for admission are given in full on pages 44-60. They are practically the same as for other New England colleges and may be met by a four-year preparatory course in a good high school or academy.

FRESHMAN STUDIES

The character of the work of the first year is conditioned somewhat upon the subjects offered for admission.

It is recommended that all students in this college register for as much of the required work as practicable in their freshman year, and they are expected to complete the whole of this work by the end of their sophomore year.

MAJOR SUBJECT

During the freshman year the student does not select a major subject and the registration is largely prescribed.

Beginning with the sophomore year each student must select, in some one department, work to be pursued three or four years, on the average of five recitations a week. Any one of the following departments may be chosen for major work: Biology, (including Zoology, Botany, Physiology, and Entomology), Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, Spanish and Italian.

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The major subject must include work counting not less than thirty nor more than forty hours. In the case of departments in which less work is offered than amounts to thirty hours, this must be made up from such other related departments as the professor under whose direction the major subject is taken may prescribe. The remainder of the student's work may be selected from any department or departments of the university. This must be done with the approval of the head of the department in which the student has chosen his major subject and must bear some useful relation to his other work.

The head of the department in which the student has chosen his major subject becomes his major instructor, and during the remainder of the course this instructor acts as chief adviser in all matters relating to the curriculum, and is the representative of the student before the faculty.

GRADUATION REQUIREMENTS

The College of Arts and Sciences has the following graduation requirements:

Every candidate for the Bachelor of Arts degree is required to complete the following amount of work in college: (a) eight hours prescribed in English; (b) ten or sixteen hours elected in Group 1, of which six or ten hours must be in foreign languages; (c) ten hours elected in Group 2; (d) ten hours elected in Group 3; (e) military science and tactics, two years, three hours a week; (f) physical training, one year, two hours a week.

A student who enters college with a minimum of four units in foreign languages is required to elect sixteen hours in Group 1, of which at least ten hours shall be in foreign languages. A student who enters with more than the minimum of four units credit is required to elect at least ten hours in Group 1, of which at least six hours shall be in foreign language.

1. LANGUAGE GROUP.—This is composed of courses in language and literature, including all the courses offered in the departments of English, Public Speaking, German, French, Spanish and Italian, and such courses offered by the departments of Greek and Latin as deal with the Greek and Latin languages and literatures, or presume some knowledge of these languages.

2. SCIENCE AND MATHEMATICS GROUP.—This is composed of the courses offered in mathematics and the biological and physical sciences,

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including all the courses offered by the Departments of Mathematics, Biology, Chemistry, Biological Chemistry, and Physics.

3. **SOCIAL SCIENCE GROUP.**—This is composed of the courses offered in the Departments of History, Economics and Sociology, Philosophy, Education; and the courses in Bibliography, History, Archeology, Fine Arts, Music, and Biblical Literature offered in other departments and not included in the first group.

4. **MILITARY SCIENCE AND TACTICS**, two years, three hours a week.

5. **PHYSICAL TRAINING**, one year, three hours a week.

GENERAL LECTURE COURSE

A course of weekly lectures is given in the College of Arts and Sciences each semester. Attendance is open to all, and credit is granted when the course is completed. This year, the lectures will be in charge of the Departments of History and Economics and Sociology in the fall semester, and the Departments of Mathematics and Physics in the spring semester.

INFORMATION CLUB

This is a club composed of students in the College of Arts and Sciences who are willing to spend an hour a week in the discussion of some topic of general interest. Leaders are selected from the faculty of this college. The attendance is voluntary and no credit is given for this work.

PROGRAM FOR SECONDARY SCHOOL TEACHERS

LEADING TO A STATE CERTIFICATE

The College of Arts and Sciences of the University of Maine has arranged a program for the professional training of secondary school teachers, which will entitle those who complete it to a professional state certificate for secondary school teachers. The program has been arranged in conference with the State Superintendent of Public Schools and has his endorsement.

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In addition to fulfilling the general requirements leading to the degree of Bachelor of Arts, the student is expected to complete six hours in Psychology in the sophomore year as a prerequisite to twelve hours work in Education in the junior and senior years, thirty hours in a major subject, and from ten to twenty hours in a minor subject. The prescribed work in Education includes three hours in the History of Education, three hours in the Principles of Secondary Education, three hours in Technique of Teaching, and three hours to be elected from the three following subjects: Adolescence, Pedagogy and Psychology of High School Subjects, and Practice Teaching.

The selection of a major subject to which the student devotes 30 hours and a minor subject to which he devotes from 10 to 20 hours is designed to equip him for teaching two subjects related to high school. Usual combinations of high school subjects are English and history, Latin and history, English and Latin, Latin and modern languages, mathematics and physics, physics and chemistry. For the completion of this course a high standard of scholarship is required. All the prescribed work must be of "C" grade or above. Upon completing this course the student will receive a Professional Secondary Certificate from the State Department of Public Instruction which will designate the major and minor subjects which he has pursued. A special certificate will also be issued by the university which will give a detailed outline of the student's record.

BACHELOR OF ARTS CURRICULA

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B. A.). The curricula demand 125 hours and are regularly completed in four years, but a student of exceptional preparation and application may complete the requirements in three years by attending one or more summer terms. Students fitting themselves for professional or technical schools are often encouraged to do this, but prospective teachers are recommended to spend four years in college.

No outlines of the curricula in the College of Arts and Sciences are given in the catalog, but students may have an outline presented to them by applying to the professor in charge of the department in which they are interested. Groups of studies may be made up which would be desirable for students intending to prepare for teaching, or to enter upon the study of law, medicine, or theology.

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In this college, 95 out of the 125 required hours must be made with a grade of C or above.

BACHELOR OF PEDAGOGY CURRICULA

Graduates of the Maine normal schools who have completed a course in a Class A high school, and who have had one year of successful experience in teaching, are admitted to the university as candidates for the degree of Bachelor of Pedagogy. Such students are required to complete, with high grade, seventy-five semester hours, of which twelve shall be in the Department of Education, and a sufficient number of the remaining hours shall be devoted to some one department to give them a satisfactory equipment for high school teaching.

CURRICULUM IN JOURNALISM

The university maintains a Curriculum in Journalism, which extends over four years and includes the following subjects:

Freshman year, English, French, German, or Spanish; Science—Physics, or Chemistry, or Biology; English, 18th and 19th Century Prose; Bibliography; History and Government; Military and Physical Training. Sophomore year, Elements of Economics, Elements of Politics, Money and Banking; History of English Literature; English History, American History, Medieval History; Science; Victorian Literature; Military and Physical Training. Junior year, Commerce, European Governments; Democracy; History of the United States; History of American Literature; Shakespeare, or History of the English Drama; Journalism; Elective, Science, or Language, or Philosophy, or Art, three hours. Senior year, Sociology, Social Pathology, American Government, Labor Problems; Specialized Writing; Recent History; Literary Criticism; Journalism; Elective, Language, Philosophy, History of Education, or Art, five hours.

Students who complete this curriculum will receive the Bachelor of Arts degree for major work in English.

COMBINED ARTS AND LAW CURRICULA

Students who have completed the junior year in the College of Arts and Sciences are permitted to enter the College of Law and are given the

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degree of B. A. after one year, and LL. B. after two additional years' work. Such students are required to conform to the Arts requirements in English, modern languages, and science; to take 30 hours in the Social Science group; and to complete 15 hours in some definite subject.

Students who can spend but two years in college before being admitted to the College of Law should register as regular freshmen in the College of Arts and Sciences. Their work should include Latin, English, French or German, public speaking, brief writing, rhetoric, and perhaps courses in journalism. They should also study ancient and modern, European, English, and especially American history, as well as economics, logic, and psychology, the latter in its relation to criminal law.

COMBINED ARTS AND MEDICAL CURRICULA

The marked increase in the number of pre-medical students in attendance at the university has led the departments concerned to establish definite programs of work for such students. For students who cannot spend more than a year in pre-medical work, a one-year course is provided which meets the entrance requirements of a number of medical colleges, but prospective medical students are strongly recommended to spend at least two years in such work, not only because a better general education is thus possible, but because a pre-medical course of at least two years is rapidly becoming recognized as essential, as is shown by the fact that thirty-nine of the best medical colleges in this country require for admission two or more years of college work. By arrangement with certain medical colleges a student completing three years at this institution may enter the medical college, and receive his bachelor's degree here at the completion of his first year at the medical college.

One-year Course

<i>Fall Semester</i>			<i>Spring Semester</i>		
Subject		Hours	Subject		Hours
General Biology.....		4	General Biology.....		4
General Chemistry.....		4	General Chemistry.....		5
General Physics.....		5	Laboratory Physics.....		2
English		2	English		2
German		3	German		2
			Elective		2

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Two-year Course

FIRST YEAR

<i>Fall Semester</i>		Hours	<i>Spring Semester</i>		Hours
Subject			Subject		
General Biology.....		4	General Biology.....		4
General Chemistry.....		4	General Chemistry.....		5
English		2	English		2
German (or French).....		5	German (or French).....		5
Military		1	Military		1
Physical Training.....		½	Physical Training.....		1

SECOND YEAR

Vertebrate Anatomy.....	4	Animal Embryology.....	4
Qualitative Analysis.....	5	Organic Chemistry.....	5
General Physics.....	5	Laboratory Physics.....	2
Psychology (or Sci. Ger. 2 hours).....	3	Animal Histology.....	4
Military	1	Military	1

Three-year Course

FIRST YEAR

General Biology.....	4	General Biology.....	4
General Chemistry.....	4	General Chemistry.....	5
English	2	English	2
German (or French).....	5	German (or French).....	5
Military	1	Military	1
Physical Training.....	½	Physical Training.....	1

SECOND YEAR

Vertebrate Anatomy.....	4	Animal Embryology.....	4
Qualitative Analysis.....	5	Organic Chemistry.....	5
General Physics.....	5	Laboratory Physics.....	2
English	3	English	3
Military	1	Military	1

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THIRD YEAR

Fall Semester

Subject	Hours
Animal Physiology.....	4
Genetics	2
Quantitative Analysis.....	4
Scientific German.....	2
Psychology	3
Sociology	3

Spring Semester

Subject	Hours
Animal Histology.....	4
Bacteriology	3
Elective	2
Scientific German.....	2
Social Psychology.....	2
Social Pathology.....	3

DEPARTMENTS OF INSTRUCTION

NOTE: A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (‡) indicates that two and one-half hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

ART

PROFESSOR HUDDILSTON

Courses extending thru four semesters present an opportunity for the student to cover the entire field of ancient and medieval and modern art history in its various bearings on the history of Europe down to the close of the 18th century. When taken in succession all but the first course may be counted toward an advanced degree.

Oriental, Greek, and Roman art will be given in a three-hour course occupying one year, and medieval and modern art will follow this for two semesters for the same number of periods.

While it is not absolutely essential that a student should have taken Courses 1 and 56 in order to be admitted to 57 and 58, it is highly desirable that a sequence should be observed and that the historical evolution of the great art epochs should be approached in such a manner as to contribute the largest educational values.

1. ART.—The history of art in ancient Egypt and western Asia, with special reference to the buildings of the Egyptians as exhibiting the best index to the history of that remarkable race. This chapter will be a foreword to the beginning of art in southeastern Europe; the Cretan and Mycenaean periods preceding the early Greek period. The history of Greek architecture and sculpture will be given down to the beginning

of Athenian supremacy. The extant monuments will be studied in photographs and with the aid of the stereopticon. Lectures, note-books, text-books, and discussions. *Three hours a week.* Given in 1916-17 and alternate years.

3, 4. GENERAL ART HISTORY.—From the Greek age down to the time of the French Revolution. Main emphasis will be laid on the architecture and sculpture of the ancients and the painting of the Renaissance and later times. This course is intended for a rapid survey of the subject and is presented with the idea of accommodating such students as can not afford the time required by the twelve semester hours involved in the other courses described in this department. Instruction will be given by lectures, with a text-book for occasional quiz. *Two hours a week.*

56. ART.—Greek and Roman art in their broad relations to the life of classical times; the influence of art as a dominant force in Greece and the effects of Greek culture upon Rome; the passing of Greek art to Latin soil; the notable national monuments of Rome. The existing remains in the European museums as well as the monuments still *in situ* in Italy, Sicily, Greece, and Asia Minor will be gone over with the photographs.

Each student will be expected to acquire some ability in estimating the styles of the various epochs. Lectures. *Three hours a week.* Given in 1916-17 and alternate years.

57. MEDIEVAL ART.—The history of art as influenced and modified by Christianity; Romanesque and Gothic in the West and North; the early centuries of painting in Italy and the influence of the fine arts in the 14th and 15th centuries, particularly in Florence, Siena, Ravenna, Venice, and Rome; the spirit of the Renaissance in Italy, France, and Germany under the domination of Italy. Lectures, study of photographs, and investigation of various topics. *Three hours a week.* Given in 1917-18 and alternate years.

58. MODERN ART.—Art in the north of Europe and in Spain, particularly the schools of painting and palace architecture in France. The age of Louis XIV reflected at Versailles and in the Louvre; the new importance of artists as international factors at Madrid, Paris, and London; social evolution and contemporary history reflected in the successive

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schools of artists with the gradual ascendancy of France until the time of the French Revolution. Lectures; study of pictures; special subjects for individual investigation. *Three hours a week.* Given in 1916-17 and alternate years.

ASTRONOMY

PROFESSOR HART; ASSISTANT PROFESSOR REED; MR. ROBERTS

10. DESCRIPTIVE ASTRONOMY.—An elementary course. The textbook is supplemented by informal lectures, illustrated by lantern slides, drawings of celestial objects, and work in the observatory. Open to all students. *Three hours a week.*

15, 16. GENERAL ASTRONOMY.—Designed for general culture and for students in mathematics and physics. Recitations, lectures, solutions of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. *Three hours a week.* Given in 1917-18 and alternate years.

57. PRACTICAL ASTRONOMY.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes, and the establishment of meridian lines. The data for these problems are taken largely from the students' own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, vertical circle, astronomical transit, and zenith telescope. Open to students who have taken Mathematics 1, 3, 9, and Astronomy 10. *Two hours of recitations or lectures and two hours of observatory work a week.*

59, 60. PRACTICAL ASTRONOMY.—The theory and use of the sextant, universal instrument, zenith telescope, transit, and equatorial. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10, and, preferably, 57. *Three hours a week.* Given in 1916-17 and alternate years.

62. HISTORY OF ASTRONOMY.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

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BIBLIOGRAPHY

PROFESSOR JONES

2. BIBLIOGRAPHY.—Origin of the alphabet; development of writing; inscriptions; manuscripts; invention of printing; early printed books; modern bookmaking; bookbinding and the care of books; library processes and aids; public documents; periodicals; libraries, ancient and modern. A lecture course, with collateral reading and reference work. *One hour a week.*

Three lectures are given on The Library and its Uses; Classification and the Catalog; and reference Books and their Use. Required of all freshmen.

BIOLOGY

GENERAL BIOLOGY.—Course 1, General Zoology, together with Course 2, General Botany, comprise a year's work in General Biology. After completing Courses 1 and 2 a student may specialize on either the botanical or the zoological side of Biology. The science requirement in the College of Arts and Sciences may be met by taking Courses 1, 2, and 7.

1. GENERAL ZOOLOGY.—The fundamental principles of animal life, illustrated by examples from the principal groups, and including some work on the anatomy and physiology of higher animals. Required of students taking the Curricula in Agriculture and Forestry, and Pre-medical work. Class-room, *two hours a week*; laboratory, *†four hours a week*.

2. GENERAL BOTANY.—The fundamental principles of plant life, illustrated by examples from the various groups, with special attention to the seed plants. Required of students taking the Curricula in Agriculture, Forestry, and Home Economics, and Pre-medical work. Pre-requisite, Course 1. Class-room, *two hours a week*; laboratory, *†four hours a week*.

5. ELEMENTARY PHYSIOLOGY.—The anatomy, physiology, and hygiene of higher animals, especially applied to man. Required of students taking the Curriculum in Home Economics. Class-room, *two hours a week*; laboratory, *†four hours a week*.

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7. PRINCIPLES OF BREEDING, OR GENETICS.—A general treatment of the facts that form the basis of our knowledge of inheritance. Prerequisites, Courses 1 and 2. *Two hours a week.*

8. ENTOMOLOGY.—A study of the structure, life-histories, and classification of insects, illustrated by common farm and forest species; the special insect pests of farm, garden, orchard, and forest, and of domestic animals; methods of control. Some work on animal parasites other than insects is included. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†four hours a week.*

9. PLANT TAXONOMY AND HISTOLOGY. 10. PLANT PHYSIOLOGY AND PATHOLOGY.—A combined course for one year for students in Agriculture, consisting of: practice in the identification of the higher plants; microscopic work on the cell, tissues, and organs of the higher plants; a study of the functions of plants, including nutrition, growth and response; a study of the diseases of plants, especially those caused by fungi. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†six hours a week.*

Note. Pharmaceutical botany is given in Courses 14 and 15, which are designed to meet the needs of students in Pharmacy, according to the syllabus of the National Committee.

14. ELEMENTARY BOTANY.—The fundamentals of the subject. Required of Two-year Pharmacy students. Class-room, *one hour a week*; laboratory, *†four hours a week.*

15. PHARMACEUTICAL HISTOLOGY.—The technic of preparation and study of the tissues of the higher plants. Prerequisite, Course 14. Class-room, *one hour a week*; laboratory, *†four hours a week.*

17. WOOD IDENTIFICATION.—The identification of the various commercial woods by means of the unaided eye and the microscope. Open to students in Chemical Engineering, and to others by permission. *†Four hours a week* (counts one credit hour). Second half of fall semester.

51. VERTEBRATE ANATOMY.—A comparative study of the organ systems of vertebrates, with the dissection of the dogfish and cat. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *†four hours a week.*

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52. **ANIMAL EMBRYOLOGY.**—A study of the fundamental principles of development, and the formation of organ systems and tissues in vertebrates. Laboratory work on fish, frog, and chick. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

53. **ADVANCED ANIMAL PHYSIOLOGY.**—A study of the activities of cells and organ systems, with experimental work on the muscles, nerves, circulation, etc., in frog and man. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

54. **ANIMAL HISTOLOGY.**—A study of the structure of protoplasm cells, and tissues; practice in microscopical technique. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

56. **VERTEBRATE ANATOMY.**—A continuation of Course 51, for the dissection of other types, especially a bird and a reptile. Prerequisite, Course 51. Laboratory, *†four to †eight hours a week*.

57, 58. **ECONOMIC ENTOMOLOGY.**—A further study of economic insects and entomological problems, varying according to the needs of the students. Prerequisite, Course 8. Laboratory, *†four to †eight hours a week*.

61. **PLANT HISTOLOGY.**—The microscopic structure of the higher plants; the cell; the various tissues; the root, stem, leaf, and spore-bearing organs; the adaptations of plants to external conditions, considered from the standpoint of structure; killing, sectioning, staining, and mounting of plant tissues. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†four hours a week*.

62. **PLANT PHYSIOLOGY.**—The plant is considered from the standpoint of its activities; absorption and transport of raw material; manufacture, transport, and storage of food; growth; movement in response to stimuli. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, *†four hours a week*.

63. **PLANT TAXONOMY AND MORPHOLOGY.**—The identification of seed-plants by the use of a manual; the structure and relationships of vascular plants from the evolutionary standpoint. Prerequisite, Course 61.

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Class-room, field and laboratory work; *time to be arranged*, giving four units.

64. PLANT ECOLOGY.—Presents briefly two aspects of the subject: (1) physiographic ecology studied in the field as far as the season permits; (2) structural ecology, viz., the histological features characteristic of plants growing in extreme habitats, and of those having special modes of nutrition. Prerequisites, Course 9 or 61. Class-room, *one hour a week*; laboratory, *†four hours a week*. Given in 1917-18 and alternate years.

66. PLANT PATHOLOGY.—The diseases of plants, especially those caused by fungi; destruction of timber by fungi; methods of combating plant diseases. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, *†two hours a week*. Given in 1916-17 and alternate years.

67, 68. FOREST BOTANY.—A systematic study of the trees of North America. Class-room, *two hours a week*; laboratory, *†four hours a week*. Prerequisites, Courses 1 and 2.

71, 72. SEMINAR.—Preparation and discussion of papers dealing with recent advances in zoology and botany. Open to seniors and graduate students. *One hour a week*.

73, 74. THESIS.—Students in the College of Agriculture specializing in biology may prepare a thesis on some subject approved by the head of the department. *Time varies*.

75, 76. ADVANCED ZOOLOGY.—This course offers an opportunity for special zoological work along lines suited to the future plans of the student. It may consist of field work, laboratory work, or reading, or a combination of all three. In general each student is given a problem for investigation and encouraged to devise methods for its solution. *The time varies and the work may be continued a number of semesters*.

77, 78. ADVANCED BOTANY.—This course offers an opportunity for special work in botany along the lines best suited to the future plans of the student. It may consist of laboratory work, field work, or reading, or a combination of all three. Courses which have recently been given under this caption include: morphology of pteridophytes; structure

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and technology of woods; structural and physiographic ecology; advanced plant physiology; special problems assigned to individuals. *The time varies and the work may be continued a number of semesters.*

CHEMISTRY

*The courses in this department are described under the
College of Technology*

ECONOMICS AND SOCIOLOGY

PROFESSOR STEPHENS; ASSOCIATE PROFESSOR MATTHEWS;
ASSISTANT PROFESSOR KREBS

For undergraduates only

1a. ELEMENTS OF ECONOMICS.—An introductory course dealing with the general principles and problems of modern economic activity, production, distribution, and consumption; value, commerce, labor problems, and various other topics in this field of study. *Three hours a week.*

1b. ELEMENTS OF ECONOMICS.—In general, similar to 1a, but abbreviated and modified to meet the needs of technical and agricultural students. *Two hours a week.*

2a. MONEY AND BANKING.—A course introductory to the study of money, banking, and finance. The history of currency and banking in the United States and other leading countries of the world. *Three hours a week.*

2b. MONEY AND BANKING.—Essentially similar to 2a, but planned especially for students in the Colleges of Technology and Agriculture. *Two hours a week.*

3. ELEMENTS OF POLITICS.—An introductory course dealing with the basic principles of government, nature of the state, sovereignty, liberty, governmental structures, political parties. *Two hours a week.*

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6. **BUSINESS LAW.**—The legal principles of modern business; contracts, agency, corporations, partnerships, bailments, guaranty, insurance. This course is intended primarily for seniors. *Three hours a week.*

9, 10. **ACCOUNTING.**—Principles and conventions of single and double entry bookkeeping; the keeping of accounts of mercantile, industrial, and financial business; the construction and interpretation of corporation accounts, balance sheets, and income statements; auditing, cost finding, depreciation, and the accountancy of investments. Lectures, discussion, and laboratory practice. *Three hours a week.*

For graduates and undergraduates

52. **PUBLIC FINANCE.**—Various systems for the collection of public revenue in America and Europe; governmental budgets; taxation,— incidence and shifting, general property, customs and excises, mortgage, insurance, income, inheritance, corporation, single tax. *Three hours a week.*

55. **GENERAL SOCIOLOGY.**—The principles underlying normal social processes and relations; societal development and selection. *Three hours a week.*

56. **SOCIAL PATHOLOGY.**—The dependent, defective, and delinquent classes; their causes, magnitude, methods of prevention, and amelioration. *Three hours a week.*

57. **CORPORATION FINANCE.**—The promotion, financiering, incorporation, and capitalization of industrial and public utility corporations in the United States; their organization and securities, relations of stockholders and directors; analysis of reports; stock speculation; receiverships and reorganizations; methods of consolidation. *Two hours a week.*

59. **INSURANCE.**—The relations of insurance and risk to modern business organization; the principles of life, fire, marine, and other forms of property insurance; types of policies; rate making; types of company organization; investments of insurance companies; insurance competition. *Three hours a week.*

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60. PUBLIC UTILITIES.—Municipal utilities in the United States and Europe; their economic, social, and legal principles and problems; regulation by commission; public and private ownership. *Two hours a week.* Given in 1917-18 and alternate years.

63. GOVERNMENTS OF EUROPE.—A comparative study of the modern governments of the principal countries of Europe; party development and current problems national and local. *Three hours a week.* Given in 1917-18 and alternate years.

66. MUNICIPAL GOVERNMENT.—The forms of government and the principal problems of American and European cities; recent movements for social and civic betterment. *Two hours a week.* Given in 1917-18 and alternate years.

68. AMERICAN GOVERNMENT.—The principles and interpretation of the American federal, state, and local governments; the study of American problems and the growth of political parties. *Three hours a week.* Given in 1916-17 and alternate years.

71. LABOR PROBLEMS.—The evolution of organized labor; present-day industrial problems of trade unions, woman and child labor, immigration, employers' associations, agencies of industrial peace. *Three hours a week.* Given in 1917-18 and alternate years.

74. TRANSPORTATION.—The historical development of transportation in the United States; railway organization, financing, rate-making; public regulation and ownership of railroads in leading European countries; federal and state legislation and regulation. *Three hours a week.* Given in 1916-17 and alternate years.

75. BUSINESS ORGANIZATION.—The origin and development of the corporation; significance of large-scale enterprise; the economic and legal aspects of business combinations; governmental regulation. *Three hours a week.* Given in 1916-17 and alternate years.

76. BUSINESS MANAGEMENT.—The methods of business; system; efficiency; cost accounting; principles of buying and selling. *Three hours a week.* Given in 1917-18 and alternate years.

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79. **INTERNATIONAL LAW.**—The nature, sources, evolution, and recent modification of international law; significance of the Great War; the position and influence of the United States. *Three hours a week.* Given in 1916-17 and alternate years.

82. **RURAL SOCIOLOGY.**—The social factors affecting country life; the economics of farming; rural co-operative organizations; the movement for the improvement of rural life. *Two hours a week.* Given in 1916-17 and alternate years.

85. **AMERICAN COMMERCE.**—American commercial relations with foreign countries; the development of foreign trade; the problems and methods of international business. Spanish America is treated the first half-year. *Two hours a week.*

86. **AMERICAN COMMERCE.**—A continuation of Course 85, with emphasis on American trade relations with the countries of Europe and the Far East. *Two hours a week.*

89. **AMERICAN DIPLOMACY.**—A review of a century of American diplomatic relations; famous treaties and prominent men and administrations connected with such negotiations. Pan-American diplomacy constitutes the subject of study the first semester. *Two hours a week.* Given in 1917-18 and alternate years.

90. **AMERICAN DIPLOMACY.**—A continuation of Course 89, chief attention being given to diplomatic relations with the countries of Europe and the Orient. *Two hours a week.* Given in 1917-18 and alternate years.

93. **THE FAMILY.**—An historical consideration of the origin and development of the family; the legal and economic relations of its members; its significance as an institution; its pathological manifestations. *Two hours a week.* Given in 1917-18 and alternate years.

Primarily for Graduates

102. **ECONOMIC THEORY.**—A critical study of modern theories of wealth and its distribution; the contributions to theory of the classical, historical, and Austrian schools; current writers. *Two hours a week.*

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107, 108. SEMINAR IN AMERICAN GOVERNMENT.—Given at the option of the instructor to a limited number of students who have shown special ability in the study of American government. *Two hours a week.*

109, 110. SEMINAR IN ECONOMICS.—Extended original investigation upon some specific topic to be selected, by students properly qualified to engage in economic research. *Two hours a week.*

EDUCATION

PROFESSOR RICHARDSON; ASSOCIATE PROFESSOR PEARCE; MISS CHADBOURNE

The Courses in Education are arranged to begin the junior year. Courses in Philosophy 51 and 52 taken during the sophomore year are a prerequisite to all courses in education, which are taken to secure credit for the professional secondary certificate. By special permission the beginning courses in education may be taken in connection with the beginning work in philosophy. Education courses 51, 52, and 77 or 78 are constant requirements for the professional secondary certificate. In addition, to secure this certificate it is necessary for the student to elect one of the following courses: Education 75 or 76, Education 83, or Education 72.

For graduates and undergraduates

51. HISTORY OF EDUCATION.—A consideration of the development of education from primitive times to the present. The following topics are studied: the earliest education; education among the Greeks and Romans; education during the middle ages; the influence of the Reformation on the development of school systems and practices, the development of modern social forces, the consequent gradual secularization of education, the revolutionary developments during the nineteenth century in school systems and practices. Special attention is given to the development of the secondary schools from the Greek to the present, emphasizing the American Latin academies and high schools in comparison with the European counterparts. *Three hours a week.*

52. PRINCIPLES OF SECONDARY EDUCATION.—A study will be made of the fundamental conception of the secondary school and its differen-

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tiation and relation to other institutions; the adolescent; the course of study; the equipment; social problems and the direction of student activities; organization and management of the secondary school. *Three hours a week.*

54. CONTEMPORARY MOVEMENTS IN EDUCATION.—A critical examination of contemporary principles and movements influencing present educational thought and practice; education of exceptional children; education through recreation; experimental education; statistical methods as applied to educational problems; education and the theory of evolution; recent emphasis on industrial, commercial, and agricultural education; recent development of educational method, and enlarging conceptions and function of education. The course in history of education is a prerequisite to this course. *Three hours a week.* Given in 1917-18 and alternate years.

58. SCHOOL HYGIENE.—This course consists of three main divisions: (1) The hygiene and sanitation of the school house, lighting, heating, ventilation, seating, duties of janitor, hygiene of utensils and books. (2) A study of the school child from the standpoint of health, growth, and defects; medical inspection of schools; contagious and other diseases; which affect school children, including the administrative problems involved. (3) The hygiene of instruction, including the best mental and physical conditions for mental work of school children. *Two hours a week.*

61, 62. ADMINISTRATION AND SUPERVISION OF EDUCATION.—This course is designed for superintendents and principals. Its purpose is to present the fundamental problems of organization and development of school systems; relation of the state to education; state, county, township, and district organizations; powers and duties of superintendents, status of school boards; valuation of curriculums and courses of study; relation of schools to the social needs of the community and individual needs of child life; efficiency of school systems as indicated by the execution of the curriculum, holding power of the schools, age and grade variations of school children, promotion, retardation and elimination; school finances and reports; school expenditures and apportionments of school funds, selection and tenure of teachers. *Three hours a week.*

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71. THE PEDAGOGY AND PSYCHOLOGY OF HIGH SCHOOL SUBJECTS.—A study of the principles underlying the methods of instruction in the various high school subjects, including their place and function in the secondary schools, and special attention to the mental processes involved in their study. *Three hours a week.*

74. METHODS IN TEACHING AGRICULTURE.—The present status of agricultural instruction in secondary schools, the application of the principles of pedagogy to the teaching of agriculture and the organization of agricultural material into a course. Education 51 and 77 are prerequisites to this course. Required of all students who expect to teach agriculture. *Two hours a week.*

75, 76. PRACTICE TEACHING.—Class teaching of junior and high school subjects in the schools of Old Town and Orono. There are special conferences with instructors in charge of these courses. General teachers' meetings once a week are required of all practice teachers. Attendance upon these meetings are as much a part of the work as teaching the regular class. *Five hours a week*, four hours credit. Other courses may be arranged in proportion to the time and character of the work. Practice teaching in agriculture is in connection with the School Course in Agriculture. *Three hours a week*, two hours credit.

77, 78. TECHNIQUE OF TEACHING.—This is a course including the principles of class management and general methods of teaching. The class room is viewed as a work shop. The technique of learning and mental work as found in school room activities will be studied, including methods of drill and habituation, questioning, presentation of material, lesson plans and aims. The course will include methods of teaching children to study and work. It is devised for secondary teachers. *Three hours a week.*

81. VOCATIONAL EDUCATION.—The history and status of vocational education in the United States and Europe; pertinent lessons to be learned from foreign systems; attitude of organized labor; attitude of employers of labor; relation to manual training; legislation; experiment of private philanthropic institutions, industrial corporations, and public schools; articulation with present school system; placements, employment; supervision; vocational analysis; cumulative school records; vocational guidance, surveys, and vocational bureaus. *Two hours a week.*

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83. MENTAL AND PHYSICAL TRAITS OF HIGH SCHOOL PUPILS.—The course is designed to give the high school teacher a knowledge of the mental and physical characteristics and motives of the high school youth, including the intellectual and physical changes of this age, social and group life, sexual differences, variation in ability, criminal tendencies, moral and religious ideals, and difference in physical and mental age and its bearing on education. Various high school activities will be valued from the status of the adolescent boy and girl: athletic organizations, intellectual interests, genetic significance of play and group life. Stress will be laid on mental and physical hygiene of adolescent development and the characteristic differences between boys and girls. *Three hours a week.*

86. PEDAGOGY AND PSYCHOLOGY OF COMMON SCHOOL BRANCHES.—A study of the principles underlying the methods of instruction of the various common school branches, their place in the curriculum, including the various devices of instruction in each of the subjects for saving of time in the learning process. Recent experimental results in reading, writing, handwriting, and arithmetic will be used. This course is especially designed for superintendents who need an insight into the present status of these subjects for purposes of supervision and administration. *Two hours a week.*

101, 102. SEMINAR IN EDUCATION.—Current methods of measuring the results of education, including standards and tests in writing, reading, spelling, drawing, and English. Each student will be required to work out some phase of the subject by the application of the measurements to the schools of Orono or other towns. *Two hours a week.* Given in 1917-18 and alternate years.

Primarily for graduates

103, 104. SEMINAR IN EDUCATION.—Methods of testing and measuring children, including the practical use of mental tests, physical measurements, hygienic tests and their application in discovering waste in education; physiological age, mental age, pedagogical and chronological age of school children will be compared. Each student is expected to take a definite problem and work it out in connection with the schools of Old Town and Orono. The course is designed for superintendents and others who wish to get an insight into the abilities of school children. *Two hours credit.* Given in 1916-17 and alternate years.

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SUMMER TERM

PROFESSOR RICHARDSON; MR. FULLER

77s. **TECHNIQUE OF TEACHING.**—This is a course including the principles of class management and general methods of teaching. The class room is viewed as a workshop. The technique of learning and mental work as found in school room activities will be studied, including methods of drill and habituation, questioning, presentation of material, lesson plans and aims. The course will include methods of teaching children how to study and work. It is devised for secondary teachers.

72s. **METHODS IN HIGH SCHOOL SUBJECTS.**—This is a course in special methods for the various secondary school branches. The psychological basis for the method of the special subject will first be studied, including the learning technique and the material of the particular branch. With this view as a basis the methods for teaching each of the high school subjects will be worked out.

62s. **MUNICIPAL SCHOOL SYSTEMS.**—This is a course designed for superintendents and principals. Its purpose is to present the fundamental problems of city school systems; principles of underlying supervision, curriculum making; powers and duties of superintendents, status of school boards; valuation of curriculums and courses of study; relation of school life to social needs of the community and individual needs of child life; efficiency of school systems as indicated by the execution of the curriculum, holding power of the schools, age and grade variations of school children, promotion, retardation and elimination; devices of training and improvement of teachers in service; measurement of qualities and merit in teachers and causes and conditions of efficiency in the teaching corps. The course will include a study of school finances and reports, school expenditures, and apportionments of school funds. Source material will be used from recent school reports and surveys of school systems.

83s. **MENTAL AND PHYSICAL TRAITS OF HIGH SCHOOL PUPILS.**—The course is designed to give the high school teacher a knowledge of the mental and physical characteristics and motives of the high school youth, including the intellectual and physical changes of this age, social and group life, sexual differences, variation in ability, criminal tendencies, moral and religious ideals and difference in physical and mental

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age and its bearing on education. Various high school activities will be valued from the status of the adolescent boy and girl: athletic organizations, intellectual interests, genetic significance of play and group life. Stress will be laid on physical and mental hygiene of adolescent development and the characteristic difference between boys and girls.

52s. HISTORY OF MODERN EDUCATION.—A very brief review of mediæval social life in the fourteenth and fifteenth centuries is made. Then the following topics are studied: the influence of the Reformation upon the development of school systems and practices, the development of modern social forces, the consequent gradual secularization of education, the revolutionary developments during the nineteenth century in school systems and practices. Special attention is given to the development of the American Latin schools, academies, and high schools in comparison with their European counterparts.

56s. EDUCATIONAL PSYCHOLOGY.—This course gives a general introduction to the study of mental development so far as it is related to education. It treats of (1) the original nature of man, considering instincts and capacities, original satisfiers and annoyers, value and use of original tendencies; (2) the psychology of learning with emphasis on associative learning, learning by analysis and selection, amount, rate, and limit of improvement, factors conditioning improvement, permanence of improvement and mental fatigue; (3) individual differences and their causes, such as sex, immediate ancestry, influence of maturity and environment.

STATE CERTIFICATION

All these courses have been planned in cooperation with the State Department of Education to meet the need of state certification for high school teachers and superintendents. All professional subjects for these two classes of certificates are included in the summer term courses. Any mature student who has the other qualification for certification should be able to get the required professional training in two or three summers.

CREDIT TOWARD GRADUATE WORK

It is the aim of the summer term to supply courses which will allow graduate credit to those seeking advanced degrees. This enables stu-

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dents to do part or all of their work for the master's degree during the summer term. Courses 77s, 72s, 83s, and 62s will allow graduate credit to mature students.

ENGLISH

PROFESSOR GRAY; PROFESSOR G. A. THOMPSON; ASSISTANT PROFESSOR

McANNEY; ASSISTANT PROFESSOR REED; MR. SHEEHAN;

MR. AXTELL; MR. RAVEN; MR. SHAW

Eight hours in English are required for the Bachelor of Arts, and ten hours (men) or thirteen (women) for the Bachelor of Science degrees. These credits are obtained somewhat differently in the several colleges: (1) in the College of Arts and Sciences by taking, during the freshman year, Courses 5, 6 and in Public Speaking Courses 1, 2; and during the sophomore year, Courses 9, 10, or 11, 12, or 27, 28, or 29, 30, or 37, 38; (2) in the College of Agriculture by taking, in the freshman year, Courses 7, 8; in the sophomore year, Courses 3, 4 in Public Speaking; in the Junior year, Courses 17, and 18; women in Home Economics, in the freshman year, Courses 5, 6; and during the sophomore year, Courses 29, 30; and during the senior year, Course 45; (3) in the College of Technology by taking, during the freshman year, Courses 7, 8; and in the sophomore year, Courses 3, 4 in Public Speaking; and in the senior year Course 15.

English 5-6 or 7-8 are prerequisite, in all colleges, for courses of the sophomore year. The required courses of the freshman and sophomore years may not be postponed until the junior or senior year without permission of the head of the department.

Elective courses in this department should be taken, so far as practicable, in the following order:

First year: Courses 27-28 or 31-32.

Second year: Courses 29, 30, 27, 28, perhaps 51 and 52, 35, 36, 39, 40, 31, 32.

Third year: Courses 51, 52, or 53, 54, 31 and 32, 41 and 42, 55 and 56, 13, 35, 36, 37 and 38, 19 and 20, 33 and 34, 39, 40, 21, 61, 62, 23, 24.

Fourth year: Courses 31 and 32, 55 and 56, 13, 53 and 54, 21, 61, 62, 10 and 20, perhaps 59, 60, 66, 67, 68, 25, 26.

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Students are expected to consult the head of the department, if they find it necessary to make a change.

For undergraduates only

5. ENGLISH COMPOSITION AND RHETORIC.—The object of this course is to give training in writing correct and clear English, with attention also to oral expression. The theoretical work consists of the study of the fundamental principles of good usage in English writing, and of the expository form of composition, with some attention to the narrative and descriptive forms. In illustration of the theory many selections from literature are studied. Weekly themes and monthly essays, with conferences. This course is prescribed for freshmen in the College of Arts and Sciences. *Two hours a week.*

6. ENGLISH COMPOSITION AND RHETORIC.—The object of this course is the same as in Course 3. The theoretical work consists of the more elementary principles of argumentation; practice in making outlines and briefs; weekly themes and monthly essays. This course is prescribed for freshmen in the College of Arts and Sciences. *Two hours a week.*

7. ENGLISH COMPOSITION.—The theory and practice of composition adapted to the needs of technical students. The writing is mainly expository; weekly themes and monthly essays, with conferences. This course is prescribed for freshmen in the Colleges of Technology and Agriculture. *Three hours a week* in the College of Technology and *two hours a week* in the College of Agriculture.

8. ENGLISH COMPOSITION.—The theory and practice of composition adapted to the needs of technical students. The writing is mainly argumentative, with attention to the less literary aspects of narrative and descriptive writing. Weekly themes and monthly briefs and essays, with conferences. This course is prescribed for freshmen in the Colleges of Technology and Agriculture. *Three hours a week* in the College of Technology and *two hours a week* in the College of Agriculture.

9, 10. EXPOSITORY COMPOSITION.—A detailed and fairly complete study of the theory of exposition, with attention to prose style. Monthly essays and conferences. *Two hours a week.* Prerequisites, Courses 5-6 or 7-8.

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11, 12. ARGUMENTATIVE COMPOSITION.—An advanced course in the theory and practice of argumentation. Monthly essays and conferences. *Two hours a week.* Prerequisites, Courses 5-6 or 7-8.

13. ADVANCED COMPOSITION.—Informal lectures on various literary forms and styles, with a large amount of writing. The object of the course is to cultivate clearness, facility, and individuality of style; and to train students to perceive and appreciate these qualities in the best books. Specialized writing, as dramatic criticism, for students in Journalism.

Students looking forward to newspaper or magazine work, to a literary career, or to teaching, will find this course especially helpful.

Prerequisites: Courses 5, 6, 9, 10, or 11, 12, 29, 30. *Two hours a week.*

15. BUSINESS ENGLISH.—Correspondence, mechanical details, reports, preparation of manuscript for theses and for technical journals. Prescribed for seniors in the College of Technology. *Two hours a week.*

17. COMPOSITION.—This course gives practice in technical journalism and news writing, in making reports and summaries of investigation, and in the preparation of theses. Open only to juniors and seniors in the College of Agriculture. *Two hours a week.*

18. LITERARY TYPES.—Great books, typical of the several forms of literature, will be read. An endeavor will be made to cultivate an appreciation of the best, both in prose and poetry, and to acquire critical knowledge of what constitutes a great drama, a great epic, a great lyric, a great novel, etc. Open only to juniors and seniors in the College of Agriculture. *Two hours a week.*

23, 24. JOURNALISM.—This course gives training and practice in the fundamentals of newspaper writing, such as observation or the seeing stories that have unique interest, "turning in tips," developing "news," "feature," and "human interest" stories, writing in journalistic style. A comparative study is made of the leading newspapers. *Three hours a week.*

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25, 26. JOURNALISM.—Practical newspaper work and technic. *Three hours a week.* Prerequisites, Courses 23, 24.

27, 28. PRACTICAL JOURNALISM.—This course consists of practical work in connection with student publications. *Two hours a week.*

29. HISTORY OF ENGLISH LITERATURE. An outline course, extending to the close of the sixteenth century, including extensive reading in the English classics. Lectures, assigned reading, and reports. This course is introductory to all other courses in English literature, and should be taken in the sophomore year.

Those who can elect only one course in English will probably find this course best suited to their needs. *Three hours a week.*

30. HISTORY OF ENGLISH LITERATURE.—A continuation of Course 29, covering the periods from the seventeenth century to the present day. *Three hours a week.*

31. ENGLISH PROSE IN THE EIGHTEENTH CENTURY.—Among the writings studied are selections from Addison, Swift, Johnson, Goldsmith, and Burke. *Two hours a week.*

32. ENGLISH PROSE IN THE NINETEENTH CENTURY.—Among the writings studied are selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. *Two hours a week.*

33. SHAKESPEARE AND THE ENGLISH DRAMA.—A lecture course giving a brief historical survey of the origin and development of the English drama to the time of Shakespeare, with assigned reading in the old dramatists. Introductory lectures on the life and art of Shakespeare, with a study of an early and a late comedy, and an early and a late tragedy. *Three hours a week.* Given in 1917-18 and alternate years.

35. SIXTEENTH CENTURY LITERATURE.—Non-dramatic poetry and prose, including selected writings from the works of Wyatt, Surrey, Gascoigne, Lyly, Sidney, Spenser, Shakespeare, Ben Johnson, and others. Attention is given to the development of forms and to literature as a reflection of the times. *Two hours a week.* Given in 1917-18 and alternate years.

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36. SEVENTEENTH CENTURY LITERATURE.—This course follows Course 35 and deals with writings from the works of Bacon; Cavalier and Puritan poets; Herrick, Milton, and Bunyan. *Two hours a week.* Given in 1917-18 and alternate years.

37, 38. VICTORIAN POETS.—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, with additional assigned reading in the poets. Special attention is given to the art of Tennyson and Browning. *Two hours a week.*

39. HISTORY OF ENGLISH LITERATURE.—A lecture course giving a brief survey of the development of English literature, extending to the close of the sixteenth century. Assigned reading and reports. *Two hours a week.* Open to technical students only.

40. HISTORY OF ENGLISH LITERATURE.—This course continues the work of 39, covering the periods from the seventeenth century to the present time. *Two hours a week.* Open to technical students only.

41. EIGHTEENTH CENTURY POETRY.—A study and comparison of classical and early romantic poetry, dealing with selected poems from the writings of Dryden, Pope, Thomson, Gray, Collins, Goldsmith, Cowper, Blake, Burns, and others. *Two hours a week.* Given in 1916-17 and alternate years.

42. EARLY NINETEENTH CENTURY POETRY.—A continuation of Course 41. Study of selected poems from the writings of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. *Two hours a week.* Given in 1916-17 and alternate years.

43, 44. AMERICAN LITERATURE.—A lecture course giving an historical outline, with assigned reading. *Two hours a week.* Prerequisites, Courses 29 and 30.

45. COMPOSITION AND LITERATURE.—(a) Practice in forms of writing especially suited to the needs of women, as the preparation of a club paper, etc. (b) A study of the best literature for childhood. Required of seniors in Home Economics and elective for other senior women. *Three hours a week.*

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46. **THE SHORT-STORY.**—Practical principles of the structure and a critical examination of the short-story as a type of literature. *Two hours a week.*

For graduates and undergraduates

51. **OLD ENGLISH (ANGLO-SAXON).**—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of old English to modern English and modern German. Lectures on the literature of the period 700-1000. This course is advised for those intending to teach English, and for all who wish a thoro knowledge of the language and literature. *Three hours a week.* Given in 1917-18 and alternate years.

52. **BEOWULF.**—This, the oldest English epic, is read with attention to text, meter, literary, and archeological interests. Prerequisite, Course 51. *Three hours a week.*

53. **MIDDLE ENGLISH LITERATURE.**—Elements of the grammar of Middle English; reading of the texts in Cook's Literary Middle English Reader. Langland's *Piers Plowman* is read with attention to text, meter, and literary interests. *Three hours a week.* Prerequisite, Course 51. Given in 1916-17 and alternate years.

54. **CHAUCER.**—All of the *Canterbury Tales* and some of the Minor Poems are read with attention to language, meter, historical and literary interests. *Three hours a week.* Given in 1916-17 and alternate years.

55, 56. **THE NOVEL.**—A study of the development and technique of the English novel. At least eight of the greatest English and American novels will be read. *Two hours a week.*

57. **CYNEWULF.**—Reading of *The Christ* and *The Elene*, and possibly some of the poems attributed to Cynewulf, as the *Phenix*, and the *Juliana*, with attention to text, meter, historical and literary interests. Prerequisites, Courses 51, 52. *Three hours a week.*

59, 60. **THE VICTORIAN PERIOD (1830-1900).**—A study of the literary, social, and scientific movements in England and America; the rise of

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periodical literature; tractarianism; pre-Raphaelitism, with special attention to Carlyle, Emerson, Newman, Matthew Arnold, Ruskin, Tennyson, Clough, Robert Browning, D. G. Rossetti, Dickens, Thackeray, George Eliot, Jane Austen, and the Brontes. *Two hours a week.*

61, 62. HISTORY OF THE ENGLISH DRAMA.—Special attention is given to the immediate predecessors and the contemporaries of Shakespeare. *Two hours a week.* Given in 1916-17 and alternate years.

63. TEACHERS' COURSE IN ENGLISH.—A. This course is conducted in cooperation with the Department of Education. It is open only to major students in English, and of these only, as a rule, to seniors and graduate students. The work is mainly practical, with some theory. See Education 75 and 76. B. The aims, methods, and problems of teaching English composition and literature in high school and in college. Open to seniors who expect to teach English. *Two hours a week.*

66. POETICS AND PROSODY.—A study of the various poetic forms, as lyric, epic, drama, and the English meters. *Two hours a week.*

67, 68. THE EIGHTEENTH CENTURY (1700-1770).—A study of the rise of prose, the essay, the magazine, the novel, and the beginnings of romanticism, with especial attention to Addison, Steele, Swift, Defoe, Pope, Johnson, Goldsmith, Gray. Lectures, assigned reading, and reports. *Two hours a week.*

Primarily for graduates

101, 102. HISTORY AND THEORY OF LITERARY CRITICISM.—*Three hours a week.*

103, 104. TYPES OF LITERATURE.—A comparative study of various literary forms. *Three hours a week.* Prerequisites, Courses 101, 102.

105, 106. MILTON AND HIS AGE.—This course is devoted to problems of form, sources, and literary influences and relations. *Two hours a week.*

107, 108. SEMINAR.—The subject varies from year to year, and is determined by the needs of students in attendance.

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SUMMER TERM

PROFESSOR GRAY; ASSISTANT PROFESSOR VAUGHAN

5s. ENGLISH COMPOSITION AND RHETORIC.—Considerable attention is given in this course, by way of review, to matters of good and bad usage, the sentence, and the paragraph. The advanced work embraces the study of rhetoric, especially relative to expository writing. Short and long themes, with conferences. The text-books used are Wooley's Handbook of Composition, Boynton's Principles of Composition, Gray's College Theme Tablet.

6s. ENGLISH COMPOSITION AND RHETORIC.—This course comprises mainly the theory and practice of argumentative writing. Simple briefs, short and long written arguments, with conferences.

33s. SHAKESPEARE AND THE ENGLISH DRAMA.—Lectures and discussions on Shakespeare's art. Four plays are studied in detail, and several more are required to be read. The origin and development of the English drama is outlined by lectures and illustrated by stereopticon. The Oxford Shakespeare, complete in one volume, is recommended. This course alternates with 37s. Given in 1917.

37s. VICTORIAN POETS.—Special attention is given to the art of Tennyson. This course alternates with 33s. Given in 1916.

45s. COMPOSITION AND LITERATURE.—This course is designed to meet the needs of college women in the home, club, and society. (a) Writing of papers, as a club paper, etc.; (b) study of child literature, with attention to its adaptation to the various school grades.

51s. OLD ENGLISH (ANGLO-SAXON).—A first course, designed to introduce the student of English to the historical study of the language and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of old English to modern English and modern German. Lectures on the literature of the period 700-1000. This course is essential for teachers of English, and for all who wish a thorough knowledge of the language and literature. This course may count three

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hours credit toward the master's degree. Open to graduate students and advanced undergraduates.

52s. **BEOWULF.**—This, the oldest English epic, is read with attention to text, meter, literary and archaeological interests. Prerequisite, Course 51s. This course may count three hours' credit toward the master's degree.

Either Course 51s or 52s will be given, according to demand.

63s. **TEACHERS' COURSE.**—The aims, methods, and problems of teaching English composition and literature in the high school will be discussed and illustrated. Stress will be placed, this session, upon the preparation of the teacher, drill in the criticism of essays and the consideration of labor saving devices connected therewith, interest as a factor in the study of literature, development of ideas as a factor in composition, and the discussion of the important recently published articles on the teaching of English. The plan of the course is sufficiently flexible for the presentation of special topics or problems by the teachers in attendance, and so far as practicable, their problems will receive attention. This course may count three hours credit toward the master's degree.

103s. **TYPES OF LITERATURE.**—This course is an introduction to the study of comparative literature. Great books, typical of the principal forms of literature, will be read. The aim of the reading and discussions will be to cultivate an appreciation of the best and to lay the foundations for a critical knowledge of what constitutes a great epic, drama, lyric, novel, etc. This course may count three hours' credit toward the master's degree. Open to graduate students; and to undergraduates only by special permission. The course presupposes considerable knowledge of literature.

FRENCH

PROFESSOR SEGALL; ASSISTANT PROFESSOR KUENY

For undergraduates only

1, 2. **ELEMENTARY FRENCH.**—Grammar, pronunciation, composition, conversation, translation. *Five hours a week.*

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3. INTERMEDIATE FRENCH.—Grammar, pronunciation, composition, conversation, translation. Open to students who have taken Courses 1 and 2, or an equivalent. *Three hours a week.*

4. INTERMEDIATE FRENCH.—A continuation of Course 3. *Two hours a week.*

5. ADVANCED FRENCH.—Rapid reading of Nineteenth Century authors: Hugo, Michelet, Anatole France, Mérimée, Balzac, Gautier, Musset, About, Daudet, Zola, Maupassant, Theuriet, Coppée. Open to students who have taken Courses 3 and 4, or an equivalent. *Three hours a week.*

6. ADVANCED FRENCH.—A continuation of Course 5. Scribe, Mme. de Girardin, Feuillet, Labiche, Sandeau, Coppée, Banville, Meilhac et Halévy, Rostand, Balzac. *Two hours a week.*

7, 8. ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.—Open to students who have taken Courses 1 and 2, or an equivalent. *Two hours a week.*

9, 10. ADVANCED FRENCH CONVERSATION AND COMPOSITION.—Open to students who have taken Courses 7 and 8, or an equivalent. *Two hours a week.*

For graduates and undergraduates

51, 52. HISTORY OF FRENCH LITERATURE.—A systematic study of the evolution of French thought and literary art forms. Extensive reading of the great writers. The middle ages; the Seventeenth, Eighteenth, and Nineteenth Centuries; Lectures, recitations, themes in French. Open to students who have taken Courses 5 and 6. *Three hours a week.*

53. THE NOVEL IN THE NINETEENTH CENTURY.—The Romantic Period: Madame de Staël, Chateaubriand, Victor Hugo, Dumas père, Vigny, Stendhal, George Sand, Balzac, Mérimée, Gautier. Lectures, recitations, themes in French. Open to students who have taken Courses 5 and 6. *Two hours a week.*

54. THE FRENCH NOVEL IN THE NINETEENTH CENTURY.—The Realistic Period: Feuillet, Flaubert, Edmund et Jules de Goncourt, Daudet,

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Zola, Ferdinand Fabre, Maupassant, Anatole France, Loti, Bourget, Rod, Paul Margueritte. Lectures, recitations, themes in French. Open to students who have taken Courses 5 and 6. *Two hours a week.*

55. THE FRENCH DRAMA IN THE NINETEENTH CENTURY.—The Romantic Period: Dumas père, Victor Hugo, Alfred de Vigny, Alfred de Musset, Scribe. Lectures, recitations, themes in French. Open to students who have taken Courses 5 and 6. *Two hours a week.*

56. THE FRENCH DRAMA IN THE NINETEENTH CENTURY.—The Realistic Period: Augier, Dumas fils, Labiche, Meilhac et Halevy, Sardou, Pailleron, Henry Becque, Georges de Ports Riche, Paul Hervieu, Maurice Donnay, Jules Lemaitre, François de Curel, Eugene Brieux, Henri Lavedan, Coppée, Rostand. Lectures, recitations, themes in French. Open to students who have taken Courses 5 and 6. *Two hours a week.*

58. HOW TO TEACH FRENCH.—A teachers' course. Lectures, recitations, practical exercises. Open to seniors who have taken Courses 9 and 10, or an equivalent. *Two hours a week.*

59, 60. HOW TO WRITE FRENCH.—An advanced course in French composition. Open to students who have taken Courses 9 and 10, or an equivalent. *Two hours a week.* Given in 1917-18 and alternate years.

61, 62. THE MIDDLE AGES.—The historic development of the French language and literature from the origins to the Renaissance. The national epic; the epic of antiquity; romances of love and courtesy. Lyric poetry; fables, and Renard the Fox; fabliaux; the Romance of the Rose. Didactic literature, sermons, history. Latest medieval poets; the drama. Lectures, recitations, themes in French. Open to students who have taken Courses 9, 10, 51, and 52. *Three hours a week.* Given in 1917-18 and alternate years.

Primarily for Graduates

101, 102. MOLIÈRE.—His life and works in close relationship to the literary, social, and political environment. The précieux and classic movements. The historic development of the comedy before and after Molière. Lectures, recitations, themes in French. Open to students who have taken Courses 51 and 52. *Two hours a week.*

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103, 104. **THE EIGHTEENTH CENTURY.**—Memoirs and history; poetry; the theatre; the novel. Montesquieu, Vauvenargues, Voltaire, Diderot and the Encyclopedia, philosophers, economists, critics. Buffon, Rousseau, Bernardin de Saint-Pierre, Beaumarchais, André Chénier. The Revolution and the Empire. Lectures, recitations, themes in French. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1917-18 and alternate years.

105, 106. **THE POETRY OF VICTOR HUGO.**—A detailed and close study of Hugo's lyric, satiric, and epic poetry. Lectures, recitations, themes in French. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1917-18 and alternate years.

107, 108. **THE SIXTEENTH CENTURY.**—Renaissance and Reformation. Clément Marot, Rabelais, Calvin. The Pleiade and Ronsard. The drama. The Protestant Poets: Du Bartas, d'Aubigné. Montaigne, Authors of Memoirs. Historians and political writers. Lectures, recitations, themes in French. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1918-19 and alternate years.

SUMMER TERM

PROFESSOR SEGALL; MR. DAMBAC

For undergraduates

5s. **ADVANCED FRENCH.**—This course is an equivalent of Course 5.

6s. **ADVANCED FRENCH.**—This course is an equivalent of Course 6.

7s. **ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.**—This course is an equivalent of Course 7.

8s. **ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.**—This course is an equivalent of Course 8.

For graduates and undergraduates

57s and 58s. **HOW TO TEACH FRENCH.**—This course is an equivalent of Courses 57 and 58. Given in 1917.

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59s. **HOW TO WRITE FRENCH.**—This course is an equivalent of Course 59. Given in 1918.

Primarily for Graduates

101s. **MOLIERE.** This course is an equivalent of Course 101. Given in 1920.

103s. **VOLTAIRE.**—This course is an equivalent of Course 103. Given in 1917.

105s. **THE POETRY OF VICTOR HUGO.**—This course is an equivalent of Course 105. Given in 1919.

107s. **MONTAIGNE.**—This course is an equivalent of Course 108. Given in 1918.

GERMAN

PROFESSOR G. W. THOMPSON; ASSISTANT PROFESSOR DRUMMOND; MR. FLOYD; MR. SEGAL; MISS KELLY

For undergraduates only

1, 2. **FIRST YEAR GERMAN.**—A course for beginners, open only to students who are registered in the College of Arts and Sciences. Grammar; composition; reading of numerous texts; conversation. *Five hours a week.*

3, 4. **SECOND YEAR GERMAN.**—A course for students who have had Course 1, 2 or the equivalent. The grammar study, composition, and text readings are progressively advanced from Course 1, 2. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

5, 6. **THIRD YEAR GERMAN.**—A course for students who have had Courses 1, 2, 3, 4 or the equivalent. Texts include 18th and 19th century literature; advanced composition; lectures on the history of German literature. *Three hours a week.*

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7, 8. **FOURTH YEAR GERMAN.**—A course for students who have had Courses 1, 2, 3, 4, 5, 6 or the equivalent. Critical reading of standard works principally from the 19th century literature; lectures on the structure of the drama; advanced composition with original themes. *Three hours a week.*

NOTE. These courses are carefully graded in difficulty and are to be taken in the order named. For the convenience of students not registered in the College of Arts and Sciences who wish to begin the study of German the following courses are offered.

Course 1, 2. A separate division for those who wish to pursue beginners' German five hours a week, or Courses 9, 10 and 11, 12 in which the work of Course 1, 2 may be completed in two years.

9, 10. **ELEMENTARY GERMAN.**—Study of grammar, composition, and easy texts which contain a practical vocabulary. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

11, 12. **CONTINUATION OF COURSE 9, 10.**—More advanced study of grammar, composition, and texts. Open to students who have completed Course 9, 10 or the equivalent. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

NOTE. Course 11, 12 is not an equivalent for Course 3, 4. Courses 9, 10 and 11, 12 are not open to students registered in the College of Arts and Sciences.

13, 14. **ELEMENTARY GERMAN CONVERSATION.**—*Three hours a week.*

15, 16. **SCIENTIFIC GERMAN.**—Separate divisions for Biology and Chemistry students. Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.*

17, 18. **ADVANCED GERMAN CONVERSATION AND COMPOSITION.**—*Two hours a week.*

NOTE. Courses 13, 14 and 17, 18 are conducted entirely in German.

19, 20. **GERMAN POETRY.**—*Two hours a week.*

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For graduates and undergraduates

51, 52. HISTORY OF GERMAN CIVILIZATION.—*Two hours a week.*

53, 54. FAUST.—History and development of the Faust idea; incisive study of Goethe's Faust; Goethe's life; influence of Faust. *Two hours a week.*

55, 56. STUDIES IN NINETEENTH CENTURY LITERATURE.—Lectures on the important literary movements in Germany; critical study of Romanticism, Young Germany, and Modern Realism; study of current literature. *Two hours a week.*

57, 58. STUDIES IN EIGHTEENTH CENTURY LITERATURE.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Herder, Goethe, Schiller. *Two hours a week.*

59, 60. ADVANCED COMPOSITION.—Critical study of the art of paragraphing; discussion of German literary models; development of style. *One hour a week.*

61, 62. MEDIEVAL LITERATURE.—Analysis and reading of the great German epics; study of the Minnesong; the causes and influences which affected the rise and fall of medieval literature. *Two hours a week.*

63, 64. HOW TO TEACH GERMAN.—A course in practical German pedagogy with discussion of theories, methods, and linguistic principles, and also definite classroom teaching for members of the class under the supervision of the instructor. *Two hours a week.*

Primarily for Graduates

101, 102. GOTHIC.—Introduction to the subject of philology; phonetics; study and reading of Gothic. Open to students whose major is German. *Two hours a week.*

103, 104. OLD HIGH GERMAN.—Wright's Old High German Primer. The condition for electing this course is the same as for Course 101, 102. *Two hours a week.*

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105, 106. MIDDLE HIGH GERMAN.—Translation of Middle High German texts. The conditions for electing this course is the same as for Courses 101, 102 and 103, 104. *Two hours a week.*

107, 108. ADVANCED LITERATURE.—Research work; original investigation. *Two hours a week.*

NOTE. Course 5, 6 may be taken by graduates who elected Course 3, 4 in their senior year. Collateral reading is a part of all German courses, in which the use of simple texts is designed to increase the vocabulary and cultivate fluency of translation. The abundance of texts now available offers so wide a choice and variation that it is deemed inexpedient to name a list of books which will be read.

SUMMER TERM

PROFESSOR G. W. THOMPSON; ASSOCIATE PROFESSOR DRUMMOND

1s. ELEMENTARY COURSE.—For those who wish to acquire or review the essentials of German grammar and the foundation of a German vocabulary.

2s. SECOND YEAR GERMAN.—This course is designed for students who have completed a year's work in German, or for such teachers as may wish to review their work in this department.

3s. CONVERSATIONAL GERMAN.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs.

4s. OLD HIGH GERMAN.—Given in 1916.

5s. NINETEENTH CENTURY LITERATURE.—Given in 1916.

6s. STUDY OF SCHILLER AND HIS WORKS.—Given in 1916.

65s. GOETHE.—Given in 1917.

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67s. HISTORY OF GERMAN LITERATURE.—From beginning to the time of Lessing. Given in 1917.

105s. MIDDLE HIGH GERMAN.—Given in 1917.

10s. GOTHIC.—Given in 1918.

11s. CLASSICAL PERIOD.—Given in 1918.

12s. STUDY OF HAUPTMANN AND SUDERMANN.—Given in 1918.

GREEK AND CLASSICAL ARCHEOLOGY

PROFESSOR HUDDILSTON

The Department of Greek and Classical Archeology is arranged with the idea of presenting the several phases of Hellenic civilization. Such courses are offered as will prove serviceable not only to those pursuing the classical languages, but to the student of average interests who, not having studied Greek in the fitting school, may desire to include in his college curriculum some work bearing on the permanent literary and art values contributed by the ancient Greeks to the civilization of both ancient and modern times.

Language

1. XENOPHON.—Hellenica, Books I-IV. Study of syntax, and daily exercises in writing Greek. *Four hours a week.*

2. HOMER.—Odyssey, Books VI-XII. The reading of the remaining books, in English translation, is required. Assigned readings on the history of Greek poetry, "the Homeric question," and Homeric antiquities. *Four hours a week.*

3. ATTIC ORATORS.—Some of the shorter orations of Demosthenes; selections from the minor Attic orators; parallel reading on the history of Greek prose literature, and the public economy and social life of Athens. *Two hours a week.*

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4. GREEK TRAGEDY.—Euripides's *Medea* and Sophocles's *Antigone*. The reading of several other plays in English translation is required; also, parallel reading on the history of the Greek tragic drama. *Three hours a week.*

5. ELEMENTARY GREEK.—The declensions, conjugations; Xenophon's *Anabasis*, Books I-II, and daily writing of Greek based on the text. *Five hours a week.*

6. XENOPHON AND HOMER.—*Anabasis*, Books III-IV; sight reading in Attic prose; selections from Homer's *Iliad*. *Five hours a week.*

Greek Studies

CIVILIZATION, LITERATURE, LIFE, RELIGION

7. GREEK PRIVATE LIFE.—Text-book; lectures, illustrated with lantern slides and photographs; assigned reading. *Two hours a week.*

8. GREEK RELIGION.—A study of the chief divinities in ancient Greek religion, and their relation to art and literature; lectures and assigned reading; investigation of special topics by members of the class. *Two hours a week.*

9, 10. ANCIENT CIVILIZATION.—This course has nothing in common with the "ancient history" of the preparatory schools. It is rather the achievements of the Greeks and Romans in laying the foundations of so much that is the basis of our modern day life and thought to which attention is directed. Some examination is made of Egyptian and Eastern civilization as the historic background on which developed Classical life and action. An important part of the course lies in the emphasis that is given to the Greek thought and Roman rule in the midst of which Christianity sprang up.

Students who take Greek 53 and 54 after this course will get the projection of Classical civilization, especially literature and philosophy, as it culminated in the Renaissance of Italy, France, and England. While especially the needs of freshmen are kept to the front in this course, it is open to all students.

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Instruction is entirely by lectures and each student is required to keep a note-bok, and also have as parallel reading Seignobos's Ancient Civilization. *Three hours a week.*

51. GREEK LITERATURE.—The history of poetry,—epic, lyric, and dramatic. Types and standards of verse composition established by the ancient Greeks, and some consideration of the Greek influence upon later poetry, particularly the epic. Lectures and readings from English translations. Each student will be expected to make a special study of some one author, and in the treatment of Aeschylus, Sophocles, and Euripides, at least one play of each will be read in class, members of the class taking the several parts. This course, as well as the next on prose literature, is intended to be foundational for students majoring in classics or in modern languages. *Three hours a week.* Given in 1917-18 and alternate years.

52. GREEK LITERATURE.—The history of prose literature in ancient Greece. History, oratory, and philosophy will be traced in succession. Students will be expected to do parallel reading, especially in Thucydides, Demosthenes and Plato. This course may be taken only in connection with Greek 51 and like the latter is intended to place the student in touch with the forces of lasting value in Greek letters. *Three hours a week.* Given in 1917-18 and alternate years.

53, 54. CLASSICAL CIVILIZATION.—A seminar course thruout the year, open only to those who have taken Greek 9, 10 and intended to develop the classical heritage of the Middle Ages and to follow Greece in the revival of learning. Lectures, discussions by members of the class, and written and oral reports. *Two hours a week.*

HISTORY

PROFESSOR COLVIN; MR. WHITMORE

For undergraduates only

1. MEDIEVAL HISTORY.—A general course covering the period from 395 to 1500 A. D. The disintegration of the Roman Empire; ecclesiastical institutions; feudalism; struggle between the papacy and the empire,

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rise of modern nations. Required of major students in history. Not open to freshmen. *Three hours a week.*

2. MODERN HISTORY.—Continuation of Course 1 to the present time. A rapid survey of the Reformation; the absolute monarchy in France; the French Revolution; the Napoleonic era; Europe in the nineteenth century. Not open to freshmen. *Three hours a week.*

3. HISTORY OF ENGLAND.—From early times to the beginning of the Stuart period. Especial attention is given to social and industrial conditions. Not open to freshmen. *Two hours a week.*

4. HISTORY OF ENGLAND.—Continuation of Course 3. From the beginning of the Stuart period to the present. Not open to freshmen. *Two hours a week.*

5. HISTORY OF THE UNITED STATES.—A general course from 1848 to the present time. Not open to freshmen. *Two hours a week.*

6. RECENT HISTORY.—This course deals mainly with the 20th century. A special study is made of some of the most important events in the year in which the course is given. Not open to freshmen. *Two hours a week.*

7, 8. UNITED STATES HISTORY AND GOVERNMENT.—This course is open to freshmen only, and credit will not be given except for a full year's work. *Three hours a week.*

9. HISTORY OF THE UNITED STATES.—The period from 1783 to 1848. This course will begin with a brief study of Colonial history from 1750. Not open to freshmen. *Two hours a week.*

10. HISTORY OF THE UNITED STATES.—A continuation of Course 9, from 1848 to the present time. Not open to freshmen. *Three hours a week.*

COLLEGE OF ARTS AND SCIENCES

For graduates and undergraduates

51. THE RENAISSANCE.—This course takes up the Renaissance as an intellectual and social movement in Italy and its expansion into France, England, and Germany. *Three hours a week.*

52. THE REFORMATION.—This course is primarily a study of the Protestant revolt, but an introductory study will be made of Waldo, St. Francis of Assisi, and religious conditions during the Renaissance. *Three hours a week.*

53. MODERN CONTINENTAL EUROPE.—The period from the Peace of Utrecht to 1789. *Three hours a week.*

54. MODERN CONTINENTAL EUROPE.—Period of the French Revolution and Napoleon I. *Three hours a week.*

55. MODERN CONTINENTAL EUROPE.—The period since 1815. *Three hours a week.*

56, 57. INDUSTRIAL AND SOCIAL HISTORY OF ENGLAND.—The medieval manor town, guild, and foreign trade; Black Death and Peasants' Rebellion; breaking up of the medieval system; expansion of England; the industrial revolution; government control in the nineteenth century; and the growth of voluntary association. This course is continuous for the year and during the latter half is carried over into Colonial and United States social and industrial history.

58, 59. HISTORICAL CONSTRUCTION AND CRITICISM.—*One hour a week.*

SUMMER TERM

PROFESSOR COLVIN

1s. UNITED STATES HISTORY.—A general survey from 1815 laying greatest stress on the period since 1877. This course is primarily for teachers and there will be discussion of methods, text-books, and collateral reading suitable for high school classes.

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2s. EUROPEAN HISTORY.—This course will begin with the Congress of Vienna and will be a study of the larger movements of the last century, especially the growth of the central powers.

3s. ENGLISH HISTORY.—The history of England since 1715 laying stress on the development of the British Empire. Arrangements can be made by which History 2 or History 3 may be taken to count for graduate work as a minor.

LATIN

PROFESSOR CHASE

For undergraduates only

1. LIVY.—Selections from Livy, History of Rome; composition, with review of Latin syntax. *Four hours a week.*

2. CICERO AND HORACE.—Cicero, De Senectute; Horace, Odes and Epodes; Latin composition. *Four hours a week.*

3. TACITUS.—Reading and discussion of the Agricola and Germania. *Three hours a week.*

4. TERENCE AND PLAUTUS.—The Phormio of Terence; the Captivi and Trinummus of Plautus; study of early Latin and the development of Roman comedy. *Three hours a week.*

8. TEACHERS' COURSE.—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Vergil. *Two hours a week.* Given in 1917-18 and alternate years.

For graduates and undergraduates

51. LATIN COMPOSITION.—Practice in writing Latin; study of Latin syntax. *One hour a week.*

52. LATIN COMPOSITION.—Practice in writing Latin; study of Latin rhetoric. *One hour a week.*

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53. THE YOUNGER PLINY.—Reading of selected letters of Pliny; the Roman Empire. *Three hours a week.* Given in 1916-17 and alternate years.

54. HORACE AND JUVENAL.—Reading of selections from the great satirists; study of Roman satire and social life. *Three hours a week.* Given in 1916-17 and alternate years.

55. TACITUS.—Reading of the *Annales* and study of the reign of Tiberius. *Three hours a week.* Given in 1917-18 and alternate years.

56. THE ROMAN ELEGIAC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; study of elegiac poetry. *Three hours a week.* Given in 1917-18 and alternate years.

57, 58. ROMAN PHILOSOPHY.—Reading from Cicero's philosophical writings and from Lucretius; discussion of the leading schools of ancient philosophy. *Three hours a week.* Given in 1916-17 and alternate years.

59, 60. ROMAN RHETORIC AND ORATORY.—Quintilian (selections from the *Institutio Oratoria*); Tacitus (*Dialogus de Oratoribus*); Cicero (selections from the *Brutus*, *De Oratore*, and *Orator*). Open to students who have taken Courses 1, 4. *Three hours a week.* Given in 1917-18 and alternate years.

61. ROMAN PRIVATE LIFE.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman every-day life. Open to students who have taken Courses 1, 4. *One hour a week.* Given in 1917-18 and alternate years.

Primarily for Graduates

101, 102. ROMAN LITERATURE.—General introduction to the subject; illustrative class-room readings. Open to students who have taken Courses 1, 4. *Three hours a week.* Given in 1916-17 and alternate years.

103, 104. THE LATIN LANGUAGE.—A discussion of the fundamental principles of linguistic growth and change and of the relationship of

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Latin to other languages; Latin phonetics; the development of inflectional forms in Latin. Lectures and recitations. *One hour a week.* Given in 1916-17 and alternate years.

105. ROMAN NUMISMATICS.—Practice in the use of coins as original sources for the study of history, mythology, archeology, etc. *One hour a week.* Given in 1916-17 and alternate years.

107. SANSKRIT.—An elementary course in the classical language of India, with especial reference to the light it throws upon the history and grammar of the languages of Europe. *Two hours a week.* Given when asked for by a sufficient number of students.

108. SANSKRIT.—A continuation of Course 107, with more attention to the classical literature of India. *Two hours a week.*

SUMMER TERM

PROFESSOR CHASE

2s. COLLEGE COURSE.—A course for students who desire college credits looking to the B. A. degree. Some standard Latin author will be read and discussed. The choice of the subjects will rest partly with the class. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

8s. TEACHERS' COURSE.—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Caesar, Cicero, and Vergil.

3s. GRADUATE COURSES.—It is possible for a graduate majoring in Latin to fulfil the requirements for the M. A. degree in four summers. The department offers a series of advanced courses, of the value of three semester hours' credit each, extending over a period of four years. These will give twelve semester hours' credit and, together with a thesis on some suitable Latin subject, will meet all the major requirements for the master's degree. The courses offered, suitable to modifications

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upon due notice, are as follows: Critical Study of Latin Literature of the Ciceronian and Augustan Periods, Roman Philosophy, Roman Rhetoric and Oratory. In addition to the major work in Latin, a graduate student will be required to take work amounting approximately to twelve semester hours in minor subjects. This work can be carried along with the Latin work and completed at the same time. It may be most conveniently divided between two subjects which bear some relation to the major work. The subjects best adapted for minors are English, History, French, Education, and German.

MATHEMATICS

PROFESSOR HART; ASSOCIATE PROFESSOR WILLARD; ASSISTANT PROFESSOR
HAMLIN; ASSISTANT PROFESSOR REED; MR. WOODS; MR.
ROBERTS; DOCTOR WIENER

Students electing mathematics as a major subject should expect to take Courses 1, 2, 3, 5, 6, 7, 8, 51, 52, 53, 54, 56, 61, and either Courses Astronomy 9, 15, 16, and 57 or Mechanics 51 and 52. They are also advised to take several courses in Physics.

For undergraduates only

1. TRIGONOMETRY.—The trigonometric functions; radian measure; functions of two or more angles; logarithms; solution of right and oblique triangles; trigonometric equations; inverse functions. *Five hours a week.* First ten weeks.

2. SOLID GEOMETRY.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. *Three hours a week.* Open to all freshmen who did not offer it for admission.

3. COLLEGE ALGEBRA.—A brief review of radicals, the theory of exponents, quadratic equations, and the binomial theorem; determinants; theory of equations. *Five hours a week.* Last eight weeks.

4. SPHERICAL TRIGONOMETRY.—The elements of this subject with problems and applications to spherical astronomy. *Two hours a week.*

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5. ADVANCED ALGEBRA.—Determinants and the solution of higher equations. Open to students who have taken Courses 1, 2, and 3. *Three hours a week.*

6. ANALYTIC GEOMETRY.—The point, line, circle, and conic sections; higher plane curves; elements of solid analytic geometry. Open to students who have had Courses 1 and 3 and the equivalent of Course 2. *Five hours a week.*

7. CALCULUS.—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; maxima and minima. Open to students who have taken Courses 1, 2, 3, and 6. *Five hours a week.*

8. CALCULUS.—A continuation of Course 7. Integration of the elementary forms; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.*

11. TRIGONOMETRY FOR AGRICULTURAL STUDENTS.—A course essentially equivalent to Course 1. *Three hours a week.*

12. APPLICATIONS OF TRIGONOMETRY.—A course given for students in Agriculture and Forestry, and open to others who have taken Course 1 or 11. Further practice in the solution of problems with applications to plane surveying. *Two hours a week.*

13. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course given for students in Chemistry and for those in the College of Arts and Sciences who desire only a brief course in this subject. *Three hours a week.*

21. The equivalent of Course 2, but given in the fall semester. *Three hours a week.*

22. The equivalent of Course 1, but given in the spring semester. *Three hours a week.*

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For graduates and undergraduates

51. ADVANCED ANALYTIC GEOMETRY.—A course for students who have completed Courses 5, 6, 7, and 8. *Three hours a week.* Given in 1916-17 and alternate years.

52. SOLID ANALYTIC GEOMETRY.—A course based upon C. Smith's Solid Geometry. *Three hours a week.* Given in 1916-17 and alternate years.

53. ADVANCED CALCULUS.—This course is varied from time to time by using different texts. Open to students who have taken Courses 6, 7, and 8. *Three hours a week.* Given in 1917-18 and alternate years.

54. ADVANCED INTEGRAL CALCULUS.—A continuation of Course 53. *Three hours a week.* Given in 1917-18 and alternate years.

56. DIFFERENTIAL EQUATIONS.—Open to students who have taken Courses 7, 8. *Two hours a week.*

61. HISTORY OF MATHEMATICS.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

101. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.—An elementary course in the treatment of analytic functions. The course includes a consideration of infinite series, both single and double, infinite products, conformal representation, and a brief application of the theory to Fourier's series, the gamma, beta, and Bessel functions, and spherical harmonies. *Three hours a week.* Not given in 1916-17.

102. ELLIPTIC FUNCTIONS.—The Weierstrass and Jacobi functions. A brief treatment of transformation theory, and numerous examples. *Three hours a week.* Not given in 1916-17.

103. MODERN ANALYTIC GEOMETRY.—Homogeneous coordinates, ideal elements, principle of duality, and an analytic treatment of the straight line and the conics. *Three hours a week.* Not given in 1916-17.

104. MODERN ANALYTIC GEOMETRY.—A continuation of Course 103. *Three hours a week.* Not given in 1916-17.

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105. THERMODYNAMICS.—The subject is considered more from a mathematical than from a physical standpoint. The subject is developed from fundamental principles, and is extended to systems of a more general character than those usually considered. *Three hours a week.* Not given in 1916-17.

106. THERMODYNAMICS.—A continuation of Course 105. *Three hours a week.* Not given in 1916-17.

107, 108. THEORY OF INVARIANTS.—An introduction to the general theory of invariants. Symbolic methods are used for both algebraic and differential invariants, with applications, particularly to geometry. *Three hours a week.* Given in 1916-17.

109. CELESTIAL MECHANICS.—An elementary course in the planetary theory. *Three hours a week.* Not given in 1916-17.

110. HYDRODYNAMICS.—The subject is treated in such a way as not to require the use of spherical harmonics. The course includes a brief treatment of some of the problems of motion in a fluid, including wave motion and rectilinear vortex motion. *Three hours a week.* Not given in 1916-17.

SUMMER TERM

PROFESSOR HART; ASSOCIATE PROFESSOR WILLARD; ASSISTANT PROFESSOR REED

Courses A and B are planned to meet the needs of high school teachers who wish to review the subjects, or to study methods of teaching. All the teachers in this department of the Summer Term had experience in high school work before entering upon college teaching. Courses 1, 3, 6, 7, 8, 10 should appeal to teachers of high school mathematics who wish to extend their field of mathematical knowledge or to become candidates for a degree. Courses 53 and 101 may be counted toward the bachelor's or, under suitable restrictions, toward the master's degree.

A. TEACHERS' COURSE IN ALGEBRA.—A course intended for teachers in preparatory schools and dealing chiefly with the second year's work.

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Special attention will be given to the methods of presenting the subject and those topics will be emphasized that are most important in preparation for college work.

B. TEACHERS' COURSE IN GEOMETRY.—A review of the more important theorems, with practice in the demonstration of original propositions and in the solution of numerical exercises. Discussion of text-books and of methods of presenting the subject.

2s. SOLID GEOMETRY.—This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Wentworth and Smith's Solid Geometry will probably be used as the text-book, but Phillips and Fisher's, Wells's, and other books will be used for reference.

1s. PLANE TRIGONOMETRY.—The elements of plane trigonometry, including the solution of right and oblique plane triangles, and of problems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry which may be useful for reference.

3s. COLLEGE ALGEBRA.—The theory of quadratic equations, the binomial theorem and so much of the regular freshman course in algebra as time will permit. The text-book is Rietz and Crathorne's College Algebra.

6s. ANALYTIC GEOMETRY.—A brief course covering the elements of this subject. The text-book is Phillips' Analytic Geometry.

7s. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course intended for teachers in preparatory schools, who wish to gain a knowledge of the elements of this subject.

8s. INTEGRAL CALCULUS.—The equivalent of Course 8. Open only to those who have previously studied the subject.

10s. DESCRIPTIVE ASTRONOMY.—Lectures accompanied by work in the observatory. The only mathematics required is an elementary knowledge of geometry and plane trigonometry. The department is well

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equipped with instruments and apparatus for the teaching of both descriptive and practical astronomy.

13s. DIFFERENTIAL AND INTEGRAL CALCULUS.—Equivalent to Course 13. Given especially for students in chemistry and physics, but open to those who have previously taken either Course 7 or Course 13 or an equivalent.

53s. ADVANCED CALCULUS.—Equivalent to a part of Course 53.

101s. THEORY OF FUNCTIONS.—Equivalent to a part of Course 53.

By suitable selection of topics, a candidate should be able to complete the work for the master's degree in four or five summer terms, the exact time depending upon his mathematical ability and previous mathematical preparation.

MUSIC

DIRECTOR SPRAGUE

1, 2. HARMONY.—This course deals with the grammar of music. It is the foundation of the art of composition, and its study is basic to a genuine musical understanding. It treats of the conditions under which tones sound together and progress in combination. The work of the course consists of the study of intervals, scales, and chords, their structure, individualities, and associations; the harmonization of melodies; analysis. Knowledge of notation required. *Two hours a week.*

3. MUSIC APPRECIATION. A study of the masterpieces of music from the viewpoint of the listener. This course is analytical rather than historical. While the vital forces and personalities in the development of the art are noted and discussed, the music itself is taken as the basis of study, a knowledge of the evolution of form in music, of the molds in which the composers' ideas are cast, being the most tangible and immediate approach to an understanding and appreciation of their works. Chief stress is placed upon the classic schools culminating in Bach and Beethoven. Lectures, illustrations, prescribed readings, and reports. The

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department is equipped with an angelus for illustration and laboratory investigation. Ability to read music is required. *Two hours a week.*

4. MUSIC APPRECIATION.—A continuation of Course 3. The study of the growth of the art is resumed, beginning with the romantic epoch following Beethoven and leading through the revolutionary era of Wagner down to the modern school of the present day. *Two hours a week.*

PHILOSOPHY

PROFESSOR CRAIG

Students choosing Philosophy as their major subject may do part of their major work in the Department of Economics and Sociology.

1. EVOLUTION.—Evolution of the stars, of the earth, of life, of mind, of society; laws of heredity; eugenics. Biological foundation for studies in physiology, sociology, and other sciences of human life. Given especially for the benefit of students who have had no biology. *Three hours a week.*

2. ANTHROPOLOGY.—The early history of man. Origins of the arts and sciences, of language, of social life, customs, and institutions. Comparison of races and of civilizations. *Three hours a week.*

5 or 6. LOGIC.—A course in logic will be given when there are six or more students who wish to take it. *Two hours a week.*

51, 52. PSYCHOLOGY.—Anatomy and physiology of the nervous system and sense-organs. Psychology of sensation, instinct, habit, emotion, attention, interest, learning, memory, imagination, reasoning, will. This is the foundation course in psychology. Required of students in Home Economics and in the professional curriculum for teachers. Thruout the year. *Three hours a week.*

54. SOCIAL PSYCHOLOGY.—A study of the social aspects of the individual mind; of the instincts which underlie all social life; of social influence and social control; of fashion, convention, and custom; of the crowd, the public, and the deliberative assembly. Open to all upper-classmen. *Two hours a week.*

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57, 58. **EXPERIMENTAL PSYCHOLOGY.**—Laboratory courses, open to a limited number of students. Prerequisite, Philosophy 51. †*Four hours a week.*

59. **MENTAL MECHANISMS.**—The subconscious, suggestion, motives, moods, character, sex, hypnotism, insanity, dreams. Applications in art, hygiene, mental healing, managing men, teaching. Open to all upper-classmen. *One hour a week.*

61. **PSYCHOLOGY OF THE FINE ARTS.**—Psychology of art in general, and of each of the fine arts. Music, architecture, painting, dancing, drama, oratory, literature. Given especially for students who are majoring in language or have had some training in at least one of the arts. No prerequisites. *One hour a week.*

83. **ETHICS.**—History of moral codes and customs. The scientific basis of morality. Applications to practical problems. No prerequisites. *Two hours a week.*

84. **HISTORY OF PHILOSOPHY AND SCIENCE.**—Lectures and collateral reading. Students trained in science may do all their reading in the history of science, and may specialize to a certain degree in any one of the sciences. No prerequisites. *Two hours a week.*

99, 100. **SEMINAR.**—Reviews of psychological literature. The work may be continued a number of semesters. *One hour a week.*

PHYSICS

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN; ASSISTANT PROFESSOR HOLMES; MR. BROWN; MR. HUTCHINSON

NOTE.—For students who are specializing in this department, the time indicated for the various laboratory courses may be extended. Two and one-half hours of laboratory work give a credit of one hour.

For undergraduates only

1. **GENERAL PHYSICS.**—Recitations and lectures on the dynamics of solids, liquids, and gases; sound and light; experiments before the class;

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problems. Open to students who have taken Mathematics 1. *Five hours a week.*

2. GENERAL PHYSICS.—A continuation of Course 1. Heat and electricity. *Three hours a week.*

3. QUALITATIVE LABORATORY WORK.—A course in which students who are preparing to become teachers of physics are given the opportunity of performing the various class-room experiments which accompany the lectures in Courses 1 and 2. *‡Five hours a week.*

4. LABORATORY PHYSICS.—The subjects usually included in an under-graduate course. Especial attention is given to the reduction of observations and the tabulation of results. Open to students who have taken either Course 1 or Course 5. *‡Five hours a week.*

5. GENERAL PHYSICS.—A course covering the ground of Courses 1 and 2, with more attention to the experimental and historical aspects, and less to the mathematical. *Five hours a week.*

6. METEOROLOGY.—A course covering the essential principles of the subject of meteorology, including a study of meteorological instruments and weather predictions. *Three hours a week.*

7. METEOROLOGY.—A continuation of Course 6, dealing with special topics, and a discussion of the results obtained at the meteorological observatory. *One hour a week recitation; ‡two and one-half hours a week laboratory.*

8. ELEMENTARY PHYSICS.—This course is to be taken only by students in Home Economics, and will consist of four recitations and one laboratory period per week. *Five hours a week.*

For graduates and undergraduates

50. OPTICS.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Three hours a week.* Given in 1917-18 and alternate years.

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51. MECHANICS AND HEAT.—Advanced laboratory work in continuation of Course 4. ‡*Seven and one-half hours a week*, or ‡*five hours a week*.

52. OPTICS.—Advanced laboratory work in continuation of Course 4. ‡*Seven and one-half hours a week*, or ‡*five hours a week*.

53. ELECTRICAL MEASUREMENTS.—Advanced laboratory work in continuation of Course 4. ‡*Seven and one-half hours a week*.

55. THEORY OF ELECTRICITY AND MAGNETISM.—Lectures and recitations on the mathematical theory of potential, capacity, and inductance, with application to direct current phenomena. *Two hours a week*.

57. PROBLEMS IN ELECTRICITY.—This course may only be taken in connection with Course 55 or Course 59, as the problems will be selected from the work covered in those courses. *One or two hours a week*.

58. MATHEMATICAL PHYSICS.—The application of mathematical methods to the treatment of problems in physics. *Two hours a week*. Given in 1916-17 and alternate years.

59. THEORY OF ALTERNATING CURRENTS.—Continuation of Course 55, with applications to alternating current phenomena; the addition and subtraction of vector quantities; the analysis of wave forms by use of Fourier's series; the algebra of complex numbers. *Two hours a week*.

60. SOUND.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Two hours a week*. Given in 1916-17 and alternate years.

61. HEAT.—An advanced course in heat in continuation of Course 2. *Three hours a week*. Given in 1917-18 and alternate years.

62. THERMODYNAMICS.—An elementary course in thermodynamics. *Two hours a week*.

63. THEORY OF MEASUREMENTS.—A text-book course covering the more important topics treated in this subject. *Two hours a week*.

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64. PROBLEMS IN THERMODYNAMICS.—This course may be taken in connection with Course 62, by those desiring further training in the solution of practical problems in thermodynamics. *One or two hours a week.*

69. RADIO-ACTIVITY.—A combined lecture and laboratory course. Elementary quantitative experiments in radio-activity are performed. *Two hours a week.* Given in 1917-18 and alternate years.

Primarily for Graduates

101. SPECIAL LABORATORY COURSE.—A course open to students who have completed Courses 51, 52, 53. A subject is assigned for original investigation, or the work of a published research is repeated. *‡Five hours a week.*

102. SPECIAL LABORATORY COURSE.—A continuation of Course 101. *‡Seven and one-half hours a week.*

103. RADIATION.—This course comprises lectures and outside reading on the following topics: the electromagnetic theory of light; the development of Maxwell's equations; the application of Maxwell's equations to the reflection, refraction, and polarization of light; the radiation and absorption of a theoretical black body; the theories of emission and absorption; electric waves and light pressure. *Two hours a week.* Given in 1916-17 and alternate years.

SUMMER TERM

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN

9s. ELEMENTARY LABORATORY COURSE.—This includes a list of experiments which would be accepted for admission to the University of Maine. The course is especially adapted for teachers who wish to become familiar with the methods of conducting an elementary laboratory course. The complete set of apparatus is assembled in the laboratory, and full directions are given for performing each experiment.

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1s. COLLEGE PHYSICS.—A course based upon those parts of Kimball's College Physics which treat of mechanics, light, and sound. This course may be taken for credit only by students who have covered the ground in Physics 1.

2s. COLLEGE PHYSICS.—A course based upon those parts of Kimball's College Physics which treat of electricity and heat. This course may be taken for credit only by students who have covered the ground in Physics 2.

5s. THE GENERAL LABORATORY COURSE.—This corresponds to the course given in the university for all students in the College of Technology. It is based on Miller's Laboratory Manual and includes experiments along the lines of mechanics, heat, light, sound, and electricity.

6s. ADVANCED LABORATORY COURSES.—These courses are offered in optics, electrical measurements, and heat. They are of a more advanced nature than those in Course 5s which is a prerequisite for them.

7s. ADVANCED LABORATORY COURSE FOR GRADUATE WORK.—This course will be adapted to the requirements of the students, and will be offered to such students as have completed the courses above listed. The work will be in the nature of a repetition of a published experiment, or it may be an original investigation.

8s. ADVANCED PHYSICS.—A course for candidates for the master's degree will be offered in this department each summer. The course will vary for four successive terms so that the student may have an opportunity to cover a wide field. For the coming term the subject will be Light. The work will be based on Edser's Light, and will, when completed, count for two credits on the university books.

PUBLIC SPEAKING

PROFESSOR DAGGETT; MR. CRANSTON

Courses 1 and 2, 3 and 4, are elementary courses; the advanced courses are intended for students who expect to make use of public speaking in college or in after life, and for students who wish to overcome

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individual faults in everyday speech. Students interested in any form of speech-making or debate are advised to take Course 5 at their earliest opportunity. This course may be followed by Course 6 or Course 8, according to individual interests.

For undergraduates only

1, 2. PUBLIC SPEAKING.—Practical training in the fundamentals of effective speaking. During the year, the student studies and analyses several pieces of exposition, argumentation, and persuasion, and reports in writing on his investigation. He also prepares original speeches and delivers them before the class. In the speaking, constant attention is given to diction and to correction of individual faults. The student's grade depends more upon right effort and improvement than upon natural qualifications for speaking. Conferences are required. Open only to freshmen in the College of Arts and Sciences. *One hour a week.*

3, 4. PUBLIC SPEAKING.—Similar to Courses 1 and 2, with the exception that more attention is given to exposition and the adaptation of technical subject-matter to speaking. Speeches will be delivered for the purpose of training the speaker to address a business meeting, or a popular audience, on a technical subject. Outside reading and written reports are required of all students. Conferences are required of students who need special drill. With the permission of the instructor, especially qualified students may substitute any elective course in public speaking, for the required 3 and 4. *One hour a week.* Open only to sophomores in the Colleges of Agriculture and Technology.

5. DEBATING. A systematic study of the principles of argumentation. Special study of analysis of the proposition, briefing, treatment of evidence, refutation, and the preparation of forensics as applied to formal debate. Monthly briefs, conferences, and oral debate. *Two hours a week.* Prerequisites, English 5, 6, or 7, 8.

Students not interested in oral debate should elect English 11. Either English 11, or Course 5 give fundamental training for Course 6 and Course 8.

6. ADVANCED DEBATING.—A review and continuation of Course 5, but devoting relatively more time to practice in oral debate. Open to a

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limited number of students who have shown ability in argumentation or debate. Prerequisites, Course 5 or English 11. *Two hours a week.* With instructor's consent, this course may be repeated with credit.

7. ORAL ENGLISH.—A fundamental course in voice production, diction and extempore speaking. Practice in reading lyric, narrative, and dramatic forms, with constant application to the requirements of public speech. Prerequisites, English 5, 6 or 7, 8.

8. THE OCCASIONAL PUBLIC SPEECH.—A study of persuasion as applied to the various forms of public address. The plan and method of typical speeches will be studied. The student will also prepare and deliver original speeches illustrating such various forms of public discourse as the eulogy, the commencement oration, the anniversary speech, the speech in behalf of a cause, the informal discussion, and the after-dinner speech. There will be both oral and written exercises, and monthly conferences. *Two hours a week.* Prerequisite, Course 5.

9 or 10. PARLIAMENTARY LAW.—A course dealing with the principles and elementary details of common parliamentary law: what motions may be made; the order in which they may be introduced; which are debatable; what is the effect. The class will be organized as a deliberative assembly, and the student given rapid practice in parliamentary usage. In this course, attention will be given to organization of meetings and to drawing up of constitutions and by-laws. Prerequisites, 1, 2 or 3, 4, or the course may be taken simultaneously with the required public speaking. *One hour a week.*

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SPANISH AND ITALIAN

PROFESSOR RAGGIO; MR. BUTTOLPH; MR. GABLE

SPANISH

The minimum requirement for a major in Spanish may be met by completing Courses 1, 2, 3, 4, 5, 6, 51, 52, 53, and 54; the maximum number of hours allowed may be taken by adding Courses 55, 56, 57, and 58 to the courses mentioned.

In the following classification, for convenience of description fall and spring semester courses have been combined and defined as groups.

For undergraduates only

1, 2. SPANISH FOR BEGINNERS.—In this course stress will be laid upon conversation as well as upon grammar, reading, and composition. The instructor will insist upon careful pronunciation and accurate translation. At the end of the course the student should be able to read at sight easy Spanish prose. During the spring semester collateral reading will be assigned. *Five hours a week.*

1a, 2a. SPANISH FOR BEGINNERS.—In this course stress will be laid upon grammar, reading, and composition. The instructor will insist upon careful pronunciation and accurate translation. During the spring semester collateral reading will be assigned. *Three hours a week.*

3, 4. SPOKEN SPANISH.—Stress will be laid in this course upon dictation and conversation. There will be frequent exercises in declamation and oral composition. Students will be expected to read, memorize, and declaim selections in prose and verse. Open to students who pass Spanish 1 and 2 with a grade not lower than B, or who otherwise satisfy the instructor of their fitness to take the course. *Two hours a week.* To be given in 1917-18.

3a, 4a. SPOKEN SPANISH.—This course is similar to Spanish 3 and 4, and is intended for students that have completed Spanish 1a and 2a with a grade not lower than B, or that otherwise satisfy the instructor of their fitness to take the course. *Two hours a week.*

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3b, 4b. TECHNICAL SPANISH.—The object of this course is to acquaint the student with the technical vocabulary of the sciences, pure and applied, as well as with the forms of private and commercial correspondence. Open to students who have completed Spanish 1a and 2a, or an equivalent. *Two hours a week.* To be given in 1917-18.

5, 6. SPANISH PROSE AND POETRY OF THE NINETEENTH CENTURY.—The object of this course is to acquire such a reading knowledge of Spanish as to be able to read at sight ordinary prose and poetry, to gain some acquaintance with the literature of the nineteenth century, and to facilitate the study later on of the Spanish classics. Collateral reading will be assigned. Open to students who have completed Spanish 1 and 2, or an equivalent. *Three hours a week.*

For graduates and undergraduates

51, 52. SPANISH CLASSICS.—In this course the first part of Cervantes's *Don Quijote* will be read entire. Selections from the dramatic works of Lope de Vega and Calderón will be studied. About 1000 pages of collateral reading will be assigned. Open to students who have completed Spanish 3, 4, 5, and 6, or an equivalent. *Three hours a week.*

53, 54. SPANISH CIVILIZATION.—The subject of this course will be approached from the point of view of the Spaniard. Collateral reading will be assigned. Open to students who have completed Spanish 5 and 6. *Two hours a week.* To be given in 1917-18.

55, 56. SPANISH COMPOSITION AND RHETORIC.—This course will be conducted in Spanish, and is to be taken contemporaneously with Spanish 57 and 58. A part of the work will consist in the discussion of themes written for that course. Open to students who have completed Spanish 51, 52, 53, and 54, or an equivalent. *Two hours a week.* To be given in 1918-19.

57, 58. HISTORICAL SURVEY OF SPANISH LITERATURE.—In this course Spanish literature will be considered from its inception to the present day. Semi-monthly themes in Spanish will be written on the epochs, and authors discussed. The correction of the themes will form a part of the work in Spanish 55 and 56 which must be taken contemporaneously with this course. Open to students who have completed Spanish 51,

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52, 53, and 54, or an equivalent. *Three hours a week.* To be given in 1918-19.

ITALIAN

For undergraduates only

1, 2. ITALIAN FOR BEGINNERS.—This is a course in Italian grammar, reading, and composition designed for those who wish to begin as soon as practicable the study of the Italian classics. During the spring semester collateral reading will be assigned. *Three hours a week.*

For graduates and undergraduates

51. CARDUCCI.—In this course will be included selections from the prose writings as well as from the poetry of Carducci. The structure of Italian verse will be considered. The course is intended to serve as an introduction to the study of the works of Dante taken up in Course 52. Collateral reading will be assigned. Open to students who have taken Italian 1 and 2, or an equivalent. *Three hours a week.* To be given in 1917-18.

52. DANTE.—In this course the *Vita nuova* and the *Inferno* will be read entire. Collateral reading will be assigned. Open to students who have taken Course 51 or an equivalent. *Three hours a week.* To be given in 1917-18.

COLLEGE OF LAW

FACULTY OF INSTRUCTION

WILLIAM EMANUEL WALZ, A. M., LL. B., Litt. D. *Professor of Law*
DEAN

EDGAR MYRICK SIMPSON, A. B. *Professor of Law*

CLARENCE WEBSTER PEABODY, A. B., LL. B. *Professor of Law*

BARTLETT BROOKS, A. B., LL. B., *Assistant Professor of Law*

LUCILIUS ALONZO EMERY, A. M., LL. D., Justice and Chief Justice of
Supreme Judicial Court of Maine, 1883-1911

Lecturer on Roman Law and Probate Law

LOUIS CARVER SOUTHARD, M. S., LL. D., Member of the Massachusetts
Bar and of the United States Supreme Court Bar

Lecturer on Medico-Legal Relations

EDWARD HARWARD BLAKE, LL. B., LL. D. *Lecturer on Admiralty Law*

ISAAC WATSON DYER, A. B. *Lecturer on Federal Jurisdiction and Pro-
cedure, and on Private Corporations.*

JOHN ROGERS MASON, A. M., LL. B. *Lecturer on Bankruptcy Law*

WILLIAM BRIDGHAM PEIRCE, B. M. E. *Lecturer on Common Law Pleading
and Maine Practice.*

HENRY BURT MONTAGUE, LL. M. *Lecturer on Practice and History of Law*

COLLEGE OF LAW

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies the Isaac H. Merrill building, now Stewart Hall, purchased by the university in 1911, corner Union and Second Streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains over 5,000 volumes, including the reports of the Federal Courts, and of the Supreme Courts of the United States, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and Ohio; the Court of Appeals of New York; the New York Common Law and Chancery Reports; the American Decisions, American Reports, and American State Reports; the complete National Reporter System; the Lawyers' Reports Annotated; the English Reports, full verbatim reprint; the English Ruling Cases; and the American Digest; all the important law encyclopedias; and a considerable number of text-books.

ADVANCED STANDING

A student entering from any law school having equal admission requirements is admitted to advanced standing and given full credit for work done in the school from which he comes, upon presenting certificates of proficiency from its executive head. All other persons seeking advanced standing as regular students must have the necessary educational qualifications required for admission and must pass examinations in the subjects covered in the earlier part of the curriculum.

Members of the bar of any state may be admitted to the senior class in the fall semester as candidates for the degree of Bachelor of Laws on presentation of their certificates of admission to the bar; graduate students, as well as members of the bar having this degree, may take the graduate courses leading to the degree of Master of Laws.

METHODS OF INSTRUCTION

The college is not committed exclusively to any one method of instruction, but the case system is consistently used in all the subjects of the law for which good case-books have been provided, and the great cases of the law, the land marks of legal development, form the basis of the recitations. The College of Law recognizes the great value of

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lectures by able men, and the profit to be found in the use of standard text-books; but the greatest stress is placed upon the study of selected cases, and most of the work is carried on in this way. It is believed that thru the case the student can best come at the controlling principles of the law, and that in no other way can he get so vital a comprehension of them. "Thru the case to the principle" may, perhaps, adequately indicate the standpoint of the college in the matter of method.

Particular stress is placed upon the practice court, which is held once a week as a part of the work of the college, and in which every student is required to appear regularly. The questions of law are in all instances made to arise from the pleadings prepared by the students, and briefs summarizing the points involved and the authorities cited are submitted to the presiding judge.

In the class and recitation work of the college the system of giving legal problems has been followed in the past and will more closely be followed now that the new entrance requirements make the completion of two year's work in college a prerequisite for admission to full and regular standing. This method consists, in brief, in the submission to the class of a legal problem to be solved by each individual student either on the same day or in writing on the next day, and has been fully described in the Report of the Thirtieth Annual Meeting of the American Bar Association held at Portland, Maine, in 1907, pages 1015 to 1017.

CURRICULUM

The curriculum covers three years, in accordance with the requirements for admission to the bar in the State of Maine. College graduates of unusual ability are permitted to arrange their work so as to complete the course in two years, provided they maintain an average of eighty percent, or above. The three years curriculum is, however, recommended in all cases.

Courses designated by an odd number are given in the fall semester; those designated by an even number in the spring semester.

COURSES OF INSTRUCTION

Roman Law, Probate Law, and "What to do in Court and How." are given about once in three years.

COLLEGE OF LAW

All courses given are required of candidates for the degree of Bachelor of Laws.

2. ADMIRALTY.—A course of lectures. *One hour a week.* MR. BLAKE.

4. AGENCY.—*Two hours a week.* PROFESSOR PEABODY.

1. BANKRUPTCY.—Lectures. *One hour a week.* MR. MASON.

3. BRIEF MAKING AND THE USE OF LAW BOOKS.—*One hour a week.* PROFESSOR WALZ.

5. CARRIERS.—*Three hours a week.* PROFESSOR SIMPSON.

7, 8. COMMON LAW PLEADING.—Lectures. *One hour a week.* MR. PEIRCE.

10. CONFLICT OF LAWS.—*Two hours a week.* PROFESSOR PEABODY.

12. CONSTITUTIONAL LAW.—*Two hours a week.* PROFESSOR PEABODY.

53, 54. CONTRACTS.—*Three hours a week.* ASSISTANT PROFESSOR BROOKS.

11. CRIMINAL LAW.—*One hour a week.* PROFESSOR SIMPSON.

16. CRIMINAL LAW.—*Two hours a week.* PROFESSOR SIMPSON.

13. DAMAGES.—*Two hours a week.* PROFESSOR PEABODY.

15. DOMESTIC RELATIONS.—*Two hours a week.* PROFESSOR SIMPSON.

17. EQUITY JURISPRUDENCE.—*Three hours a week.* PROFESSOR WALZ.

18. EQUITY JURISPRUDENCE.—*Two hours a week.* PROFESSOR WALZ.

19. EVIDENCE.—*Three hours a week.* PROFESSOR SIMPSON.

20. EQUITY PLEADING.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.

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22. EVIDENCE.—*Two hours a week.* PROFESSOR SIMPSON.
24. EXECUTORS AND ADMINISTRATORS.—Lectures. *One hour a week.* PROFESSOR SIMPSON.
26. FEDERAL COURT.—Lectures. *One hour a week.* PROFESSOR WALZ.
23. FEDERAL JURISDICTION AND PROCEDURE.—Lectures. MR. DYER.
21. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.
55. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.
28. HISTORY OF LAW.—Lectures. *One hour a week.* PROFESSOR WALZ.
56. INSURANCE.—*Two hours a week.* PROFESSOR PEABODY.
30. INTERNATIONAL LAW.—Lectures. *One hour a week.* PROFESSOR WALZ.
31. LEGAL ETHICS.—*One hour a week.* PROFESSOR WALZ.
34. MAINE PRACTICE.—Lectures. *One hour a week.* MR. PEIRCE.
58. MEDICO-LEGAL RELATIONS.—Lectures. *About six lectures.* MR. SOUTHARD.
57. MUNICIPAL CORPORATIONS.—*Two hours a week.* PROFESSOR PEABODY.
35. NEGOTIABLE PAPER.—*One hour a week.* ASSISTANT PROFESSOR BROOKS.
60. NEGOTIABLE PAPER.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.
36. PARTNERSHIP.—*Two hours a week.* PROFESSOR WALZ.
33. PRACTICE AND HISTORY OF LAW.—Lectures. MR. MONTAGUE.

COLLEGE OF LAW

37, 38. PRIVATE CORPORATIONS.—*Two hours a week.* PROFESSOR PEABODY.

39. PRIVATE CORPORATIONS.—Lectures. MR. DYER.

40. PROBATE LAW AND PRACTICE.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.

41. REAL PROPERTY.—*Three hours a week.* PROFESSOR SIMPSON.

42. REAL PROPERTY.—*Two hours a week.* PROFESSOR SIMPSON.

44. REAL PROPERTY CASES.—*Three hours a week.* PROFESSOR SIMPSON.

46. ROMAN LAW.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.

45. SALES.—*Three hours a week.* PROFESSOR PEABODY.

47. SURETYSHIP.—*Three hours a week.* PROFESSOR PEABODY.

48. WHAT TO DO IN COURT.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.

49, 50. TORTS.—*Three hours a week.* PROFESSOR WALZ.

52. WILLS.—*Two hours a week.* PROFESSOR PEABODY.

UNIVERSITY OF MAINE

COLLEGE OF TECHNOLOGY

FACULTY OF INSTRUCTION

HAROLD SHERBURNE BOARDMAN, C. E. *Professor of Civil Engineering*
DEAN

CHARLES PARTRIDGE WESTON, C. E., M. A.
Professor of Mechanics and Drawing

CHARLES BARTO BROWN, C. E. *Professor of Civil Engineering*

WILLIAM EDWARD BARROWS, E. E. *Professor of Electrical Engineering*

WILLIAM JORDAN SWEETSER, S. B. *Professor of Mechanical Engineering*

CHARLES WILSON EASLEY, Ph. D. *Professor of Chemistry*

WILLIAM AMBROSE JARRETT, Pharm. D. *Professor of Pharmacy*

*ALBERT THEODORE CHILDS, E. E.
Associate Professor of Electrical Engineering

ARCHER LEWIS GROVER, B. S. *Associate Professor of Drawing*

†JULIUS ERNEST KAULFUSS, B. S.
Associate Professor of Civil Engineering

CARL HENRY LEKBERG, B. S.
Associate Professor of Mechanical Engineering

EMBERT HIRAM SPRAGUE, B. S.
Associate Professor of Civil Engineering

LLOYD MEEKS BURGHART, M. A. *Assistant Professor of Chemistry*

ALBERT GUY DURGIN, M. S. *Assistant Professor of Chemistry*

ALPHEUS CROSBY LYON, B. S. *Assistant Professor of Civil Engineering*

JOSEPH NEWELL STEPHENSON, M. S. *Assistant Professor of Chemistry*

JOHN WILLIAM HARVEY, B. S.
Assistant Professor of Electrical Engineering

HERBERT HANNIBAL HILLEGAS, B. S.
Assistant Professor of Electrical Engineering

*Absent on leave, without pay, September 1, 1916, to September 1, 1917.

†Resigned November 11, 1916.

COLLEGE OF TECHNOLOGY

JOHN WILLARD KIMBALL, Ph. D.	<i>Assistant Professor of Chemistry</i>
DeWITT McCLURE TAYLOR, S. B.	<i>Assistant Professor of Mechanical Engineering</i>
EDWARD D KINGMAN, Ph. B.	<i>Acting Assistant Professor of Civil Engineering</i>
PETER GILLESPIE McKINLAY, B. S.	<i>Instructor in Extension Work in Technology</i>
EVERETT WILLARD DAVEE	<i>Instructor in Wood and Iron Work</i>
CHARLES JENKINS CARTER	<i>Instructor in Machine Tool Work</i>
*WALTER ELWOOD FARNHAM	<i>Instructor in Drawing</i>
ERNEST CONANT CHESWELL	<i>Instructor in Electrical Engineering</i>
ARTHUR WHITING LEIGHTON	<i>Instructor in Drawing</i>
HARRY GILBERT MITCHELL, A. M.	<i>Instructor in Chemistry</i>
CHESTER HAMLIN GOLDSMITH, B. S.	<i>Instructor in Chemistry</i>
RALPH IRWIN ALEXANDER, B. S.	<i>Instructor in Mechanical Engineering</i>
JOHN DOUGLAS GLANCY, Pharm. D., Ph. C.	<i>Instructor in Pharmacy</i>
CLYDE THOMAS GRAHAM, B. Sc.	<i>Instructor in Civil Engineering</i>
EDWARD KNEVALS HULL	<i>Instructor in Drawing</i>
MARSHALL MILLER, CH. E.	<i>Instructor in Chemistry</i>
NORMAN CLIFFORD SMALL, B. S.	<i>Instructor in Civil Engineering</i>
LESTER FRANK WEEKS, B. S.	<i>Instructor in Chemistry</i>

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, in various branches of engineering, and in pharmacy. The number of hours required for graduation in this college is one hundred and fifty. In such technical curricula it is necessary to prescribe a large proportion of the work; but some elective studies may be chosen in the junior and senior years. Under each of the curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

- Chemical Engineering Curriculum
- Chemistry Curriculum
- Civil Engineering Curriculum
- Electrical Engineering Curriculum
- Mechanical Engineering Curriculum
- Pharmacy Curricula

*On half time leave of absence from September 1, 1916, to September 1, 1917.

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The following requirements for graduation are common to all curricula in this college, with the exception of the short Curricula in Pharmacy.

1. Mathematics, the equivalent of two years, five hours a week, except in Chemistry and Chemical Engineering, where one and two-fifths years are required, and in Pharmacy, where one year is required.

2. Science (chemistry, physics, or biology), the equivalent of one year, five hours a week, of which time an important part must be occupied with laboratory work.

3. Language. English, the equivalent of one year, five hours a week; modern foreign language, the equivalent of one year, five hours a week, but the foreign language may not be the one offered for admission except by permission of the Dean of the College of Technology. By permission of his major instructor, a student may transfer not to exceed three semester hours from English to the foreign language which he is taking.

If a student shall offer for admission in addition to the regular admission requirement in foreign language, at least two units of another modern foreign language, then the above requirement of a five-hour year in one of those languages may be waived by his major instructor.

At graduation in any of these curricula the student receives the degree of Bachelor of Science; except for the short curricula in Pharmacy where the degrees of Graduate in Pharmacy or Pharmaceutical Chemist are conferred. The diploma indicates which curriculum has been completed.

Maine Technology Experiment Station

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station is under the direct control of the President of the University, the Dean of the College of Technology, and the heads of the Departments of Chemistry and Engineering. The Station carries on practical research in engineering subjects, makes investigations for State boards and municipal authorities, furnishes scientific information to the industries of the State, and distributes accurate scientific knowledge to the people. A four-page bulletin will be issued monthly during the college year.

COLLEGE OF TECHNOLOGY

Chemical Engineering Curriculum

In view of the rapid development of the application of chemistry in manufacturing, this curriculum is offered to furnish training in engineering together with specialization in chemistry. The first two years are almost identical with those under the Chemistry Curriculum, but in the junior and senior years the student takes the fundamental courses in mechanical and electrical engineering, where, in the Chemistry Curriculum, the student takes subjects having a biological aspect. The training is thus essentially chemical, and the graduates are primarily chemists having a good knowledge of mechanical and electrical engineering. Such students will be prepared to enter the profession of chemical engineering and to occupy positions in manufacturing establishments such as metallurgical works, bleacheries, dye houses, chemical plants, gas works, sugar refineries, pulp and paper mills, etc.

Option I. Regular Curriculum

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 3, *6.....	2	Drawing 2, *6.....	1
English 5.....	3	English 6.....	3
German 1 or French 3.....	3	German 2 or French 4.....	2
Mathematics 1 & 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Physical Training *2.....	½	Physical training *2.....	1

SOPHOMORE YEAR

Chemistry 11, †10.....	5	Chemistry 60, †10.....	5
English 3.....	1	Chemistry 52, 3 and †4.....	5
Mathematics 13.....	3	English 4.....	1
Mechanical Engineering 3, *4..	1½	Military 2, *3.....	1
Military 1, *3.....	1	Modern language.....	2
Modern language.....	3	Physics 2.....	3
Physics 1.....	5	Physics 4, ‡5.....	2

UNIVERSITY OF MAINE

JUNIOR YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
Subject		Hours	Subject		Hours
Chemistry 53.....		3	Chemistry 72.....		2
Chemistry 63, †8.....		4	Chemistry 64, †4.....		2
Chemistry 71.....		3	Chemistry 66, †4.....		2
Chemistry 17, †4.....		2	Chemistry 74, †6.....		3
Chemistry 75.....		2	Chemistry 96, †4.....		2
Mechanical Engineering 75, †3	1½		Mechanical Engineering 14....		3
Physics 53, †7½.....		3	Electrical Engineering 30.....		2
			Elective		2

SENIOR YEAR

Chemistry 77.....	3	Chemistry 98, †10.....	5
Chemistry 101.....	3	Chemistry 94.....	1
Chemistry 57, †6.....	3	Chemistry 76.....	2
Chemistry 105 or Geology 3....	2	Chemistry 104, †8.....	4
Electrical Engineering 35.....	2	Elective	5
Electrical Engineering 33 †4....	2		
English 15.....	2		
Elective	1		

Option II. Pulp and Paper Curriculum

FRESHMAN YEAR

Same as in Option I

SOPHOMORE YEAR

Chemistry 11, †10.....	5	Chemistry 60, †10.....	5
English 3.....	1	Chemistry 52, 3 and †4.....	5
Mathematics 13.....	3	English 4.....	1
Biology 17, †2.....	1	Modern language.....	2
Military 1, *3.....	1	Physics 2.....	3
Modern language.....	3	Physics 4, †5.....	2
Physics 1.....	5	Chemistry 44.....	2
		Military 2, *3.....	1

COLLEGE OF TECHNOLOGY

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 83, †4.....	2	Chemistry 72.....	2
Chemistry 53.....	3	Chemistry 82, †4.....	2
Chemistry 55, †4.....	2	Chemistry 66, †4.....	2
Chemistry 71.....	3	Chemistry 74, †6.....	3
Chemistry 81.....	2	Chemistry 84.....	2
Chemistry 27.....	1	Electrical Engineering 30.....	2
Mechanics 11.....	3	Forestry 2.....	2
Civil Engineering 33.....	1	Elective	2
German 15.....	2		
Forestry 9.....	1		

SENIOR YEAR

Chemistry 77.....	3	Chemistry 98, †10.....	5
Chemistry 89, †4.....	2	Chemistry 86, †2.....	1
Chemistry 87, †4.....	2	Chemistry 88.....	2
Chemistry 93.....	1	Mechanical Engineering 14....	2
Electrical Engineering 35.....	2	Mechanical Engineering 94....	1½
Electrical Engineering 33, †4....	2	Economics 6.....	3
English 15.....	2	Elective	3
Civil Engineering 35.....	2		
Mechanical Engineering 99.....	2		

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Chemical Engineer.

Chemistry Curriculum

This curriculum is designed to give the student not only a thorough technical training, but also a breadth of education which will enable him readily to undertake the great variety of problems which naturally present themselves to a chemist. It differs from the Chemical Engi-

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neering curriculum in that in the last two years the student takes courses having a biological aspect (bacteriology, biological chemistry, and agricultural analysis) rather than those of an engineering type. The curriculum is a broad one and, when completed, it prepares the student to teach, or for the profession of chemist in experiment stations, food laboratories, chemical fertilizer and tanning plants; metallurgical, rubber and electric machinery manufactories; and the general consulting and analytical work of a professional chemist.

FRESHMAN YEAR

Same as in Chemical Engineering

SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 60, †10.....	5
English 3	1	Chemistry 52, 3 and †4.....	5
Mathematics 13.....	3	English 4.....	1
Modern language.....	3	Modern language.....	2
Military 1, *3.....	1	Military 2, *3.....	1
Physics 1.....	5	Physics 2.....	2
		Physics 4, †5.....	2

JUNIOR YEAR

Biological Chemistry 1.....	5	Agricultural Chemistry 4, †10	5
Chemistry 53.....	3	Bacteriology 1, †6.....	3
Chemistry 71.....	3	Chemistry 72.....	2
Chemistry 75.....	2	Chemistry 74, †6.....	3
Chemistry 63, †8.....	4	Modern language.....	2
Modern language.....	3	Elective	4

COLLEGE OF TECHNOLOGY

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 57, †6.....	3	Chemistry 98, †10.....	5
Chemistry 101.....	3	Chemistry 76.....	2
Chemistry 77.....	2	Chemistry 94.....	1
Chemistry 61, †4.....	2	Chemistry 104, †8.....	4
Chemistry 105 or Geology 3.....	2	Elective	4
English 15.....	2		
Elective	3		

Civil Engineering Curriculum

The object of the Curriculum in Civil Engineering is to give the student as thorough a knowledge as possible of the principles underlying the profession. The attempt is made to give the student not only a technical education, but to form the basis for a liberal one as well.

The endeavor is made to impress upon the mind of the student that the granting of his bachelor's degree does not make him an engineer. It simply indicates that he has received the mental technical training which will fit him to follow the profession, and that he must begin at the bottom of the ladder of practice in order to obtain experience and judgment, without which he can never become successful.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice and with the standard engineering literature.

The work of the first year is the same for all engineering students, especial attention being paid to mathematics and English. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased until the last year when it is nearly all professional. At the beginning of the fourth year an opportunity is offered to specialize slightly along one of three lines. The first, called Option 1, consists of work in hydraulic engineering and electrical transmission, the second, Option 2, consists of work in railroad engineering, while Option 3 consists of work in highway engineering.

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The following outline constitutes the regular four-year curriculum. Certain general subjects which are given as requirements may, on presentation of reasons satisfactory to the head of the department, be omitted and others substituted.

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	3	English 6.....	3
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern language.....	3	Modern language.....	2
Physical training *2.....	½	Physical training *2.....	1

SOPHOMORE YEAR

Civil Engineering 1.....	2½	Civil Engineering 2 and 4.....	2
Drawing 3, *6.....	2	Civil Engineering 6 and 8.....	3
Public Speaking 3.....	1	Drawing 4, *6.....	2
Mathematics 7.....	5	Public Speaking 4.....	1
Military 1, *3.....	1	Mathematics 8.....	5
Modern language.....	3	Military 2, *3.....	1
Physics 1.....	5	Modern language.....	2
		Physics 2.....	3
		Physics 4, †5.....	2

JUNIOR YEAR

Civil Engineering 25.....	2	Civil Engineering 20.....	2
Civil Engineering 21, 23, *6.....	2	Civil Engineering 22.....	2
Civil Engineering 29.....	2	Civil Engineering 26.....	3
Economics 1b.....	2	Civil Engineering 28.....	3
Geology 6.....	2	Economics 2b.....	2
Mechanics 51.....	5	Mechanics 52.....	5
Mathematics 57.....	3	Mechanical Engineering 74, †2	1
Physics 51, †2½.....	1	*Civil Engineering 24.....	2

*Taken after Commencement

COLLEGE OF TECHNOLOGY

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Civil Engineering 57.....	3	Civil Engineering 58.....	3
Civil Engineering 67.....	1	Civil Engineering 60.....	2
Civil Engineering 59, †9.....	4½	Civil Engineering 62, †6.....	3
Civil Engineering 55 and 51		Civil Engineering 52 and Elec-	
(Option 1).....	4	trical Engineering 42 (Op-	
Civil Engineering 63 and 53		tion 1).....	5
(Option 2).....	4	Civil Engineering 64 and 66	
Civil Engineering 69 and 53		(Option 2).....	5
(Option 3).....	4	Civil Engineering 72 and 74	
History 5.....	2	(Option 3).....	5
English 15 or 31.....	2	Civil Engineering 70, †2.....	1
		Economics 6.....	3

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thoro understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

It is the endeavor of the curriculum to acquaint the student with contemporary engineering practice and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

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In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and allied engineering courses, together with the cultural subjects enumerated below.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	3	English 8.....	2
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern language.....	3	Modern language.....	2
Physical Training *2.....	½	Physical training *2.....	1

SOPHOMORE YEAR

Electrical Engineering 1.....	2	Electrical Engineering 2.....	2
Public Speaking 3.....	1	Public Speaking 4.....	1
Mathematics 7.....	5	Modern language.....	2
Physics 1.....	5	Mathematics 8.....	5
Drawing 3, *6.....	2	Physics 2.....	3
Modern language.....	3	Physics Laboratory 4, ‡5.....	2
Military 1, *3.....	1	Mechanical Engineering 56....	3
		Drawing 4, *6.....	2
		Military 2, *3.....	1

JUNIOR YEAR

Electrical Engineering 5.....	3	Electrical Engineering 50.....	3
Mechanics 51.....	5	Electrical Engineering 8, *4....	2
Mechanical Engineering 9, *4..	1½	Mechanics 52.....	5
Economics 1b.....	2	Mechanical Engineering 10, *4	1½
Civil Engineering 3.....	2	Economics 2b	
Civil Engineering 5, *6.....	½	or Mathematics 56.....	2
Physics 53, †7½.....	3	Economics 2b.....	2
Elective	2	Mechanical Engineering 66....	3
		Mechanical Engineering 80....	3

SENIOR YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
Subject		Hours	Subject		Hours
Electrical Engineering 51.....	3		Electrical Engineering 52.....	2½	
Electrical Engineering 53.....	2		Electrical Engineering 54.....	1	
Electrical Engineering 55, †4....	1½		Electrical Engineering 56.....	2½	
Electrical Engineering 75, *4....	2		Electrical Engineering 58.....	2	
Civil Engineering 33.....	1		Electrical Engineering 76, †4	2	
Civil Engineering 35.....	2		Economics 6.....	3	
Mechanical Engineering 83.....	3		Elective	2	
Mechanical Engineering 77, †3	1½		Inspection Trip Thesis.....		
English 15.....	2		Thesis		
Elective	2				

Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all work involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and ventilating or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering Curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses while the those subjects which are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short and his acquirement of the knowledge necessary for advancement rapid.

UNIVERSITY OF MAINE

The theoretical work is taught mainly by recitations, based upon carefully chosen texts which are supplemented or brought down to date, where necessary, by explanations or illustrative examples on the part of the instructor. Numerous problems are assigned for work outside the class-room to make sure the student can apply the principles learned.

Courses in the shops and laboratories illustrate the application of matter learned in the recitation work, and also teach methods of construction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, application of theories to work in design are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thoro instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Sufficient time is devoted to recitation and field work in surveying to give familiarity with instruments and methods. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	3	English 8.....	3
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern language.....	3	Modern language.....	2
Physical training *2.....	½	Physical training *2.....	1

COLLEGE OF TECHNOLOGY

SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Drawing 3, *6.....	2	Drawing 4, *6.....	2
Mathematics 7.....	5	Public Speaking 4.....	1
Mechanical Engineering 11, *3	1	Mathematics 8.....	5
Military 1, *3.....	1	Mechanical Engineering 2, *6	2
Modern language.....	3	Mechanical Engineering 56....	3
Physics 1.....	5	Military 2, *3.....	1
Mechanical Engineering 5, *3....	1	Modern language.....	2
Public Speaking 1.....	3	Physics 2.....	3
		Physics 4, ‡5.....	2

JUNIOR YEAR

Mechanical Engineering 7, *6....	2	Mechanical Engineering 8, *6	2
Mechanical Engineering 61.....	2	Mechanical Engineering 66..	3
Mechanical Engineering 59, *3..	1	Mechanical Engineering 82....	3
Mechanical Engineering 81,	3	Mechanical Engineering 70, ‡2	1
Civil Engineering 3.....	2	Mechanical Engineering 68....	2
Civil Engineering 5.....	½	Electrical Engineering 30.....	2
Mechanics 51.....	5	Mechanics 52.....	5
Physics 51, ‡5.....	2		
Economics 16.....	2		

SENIOR YEAR

Mechanical Engineering 83.....	3	†Mechanical Engineering 68..	2
Mechanical Engineering 71, ‡3..	1½	Mechanical Engineering 72, ‡3	1½
Mechanical Engineering 67, *6..	2	Mechanical Engineering 84....	2
Civil Engineering 33.....	1	Mechanical Engineering 88, *6	2
Civil Engineering 35.....	2	*Mechanical Engineering 94	1½
Electrical Engineering 31.....	2	*Economics 2b.....	2
Electrical Engineering 33, ‡3....	1½	Electrical Engineering 34, ‡2	1
Mechanical Engineering 91.....	1½	Mechanical Engineering 96....	1
English 5.....	2	Mechanical Engineering 98....	2
Philosophy 51.....	3	Inspection Trip.....	
		Thesis	

*Substitution may be offered for this course if approved by the major instructor.

†Will be given in the junior year only, beginning with 1917-18.

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Pharmacy Curricula

The Department of Pharmacy offers three curricula, one of four years, one of three years, and one of two years.

The four-year curriculum is offered in response to a demand for a combined collegiate and technical training for those who design to practice pharmacy. It aims therefore to combine general culture studies with a training in those sciences fundamental to technical pharmacy, to the end that the pharmacist may be equipped culturally and technically to fulfill the increased demands and responsibilities of his exacting calling. Hence, this curriculum includes the appropriate sciences and laboratory courses, it also includes cultural courses in modern languages, history, philosophy, and economics. While in the latter three subjects particular courses are not specified, a minimum number and proper sequence of such courses are required.

Those who intend to prepare for pharmaceutical work are urged to consider carefully the superior advantages of this curriculum. The increasing importance of the chemical, biological, and sanitary sciences, and of the pharmacist's relation to them, emphasized by the era of food and drug legislation now upon us, points out at once the path of new duty and of enlarged opportunity to those fitted to enter. To the unfit, the new duty remains, without the enlarged opportunity.

Instruction in pharmaceutical studies is given by lectures, recitations, and tests, supplemented by work in the laboratories of chemistry, biology, and pharmacy. Thirty hours are required for graduation.

The library contains valuable reference literature in chemistry, pharmacy, and allied sciences, and the leading scientific and technical journals.

REQUIREMENTS FOR GRADUATION, FOUR-YEAR CURRICULUM

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 2.....	2	Chemistry 2.....	3
Chemistry 3, †4.....	2	Chemistry 6, †4.....	2
English 8.....	3	English 6.....	4
*French 3 or German 2.....	2	French 4 or German 1b.....	2
Mathematics 1 and 3.....	5	Military 2, *3.....	1
Military 1, *3.....	1	Physical training *2.....	1
Physical training *2.....	½	Mathematics 6.....	5

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SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Biology 1.....	4	Biology 2.....	4
Chemistry 11, †10.....	5	Chemistry 52.....	5
English 3.....	1	English 4.....	1
Military 1, *3.....	1	Military 2, *3.....	1
Modern language.....	3	Modern language.....	2
Physics 1.....	5	Physics 2.....	3
		Physics 4, ‡5.....	2

JUNIOR YEAR

Biological chemistry 1.....	5	Bacteriology 1, †6.....	3
Biology 15.....	3	Chemistry 60 †10.....	5
Chemistry 53.....	3	Laboratory biological chem-	
Pharmacy 13.....	3	istry 2, †4.....	2
Pharmacy 7.....	3	Pharmacy 2.....	4
Pharmacy 9.....	3	Pharmacy 16, †8.....	4
		Pharmacy 4.....	2

SENIOR YEAR

Pharmacy 11.....	2	Pharmacy 54.....	1
Pharmacy 17, †8.....	4	Pharmacy 14.....	5
Chemistry 61, †4.....	2	Pharmacy 18, †12.....	6
Pharmacy 3.....	3	Pharmacy 20.....	3
Elective	3	Pharmacy 58.....	2
Chemistry 41, †8.....	4	Pharmacy 22, †4.....	2
Pharmacy 51.....	2		

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one additional year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science.

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THREE-YEAR CURRICULUM

This is designed more especially for those who wish to enter the commercial field of pharmaceutical chemistry or food and drug analysis. It also enables the pharmacist to strengthen his professional relations by the practice of urinary, bacteriological, and toxicological analysis for the physician. This curriculum includes a foreign language, English, and science, as well as advanced studies in pharmacy and chemistry, not given in the two-year curriculum.

The work of the first two years corresponds to that of the two-year curriculum. Upon the completion of this curriculum the student receives the degree of Pharmaceutical Chemist.

THIRD YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Bacteriology 1, †6.....	3	Chemistry 68.....	2
German 9.....	3	Biological Chemistry 8, †6.....	3
English 7.....	3	English 8.....	3
Physics 5.....	5	German 10.....	2
Biological Chemistry 1.....	5	Chemistry 92.....	2
Elective	2	Pharmacy 22, †8.....	4

Two Year Curriculum

This curriculum is designed for those who for lack of time or for other reasons, are unable to take the other curricula. The more general educational studies of the full curriculum are omitted, but as broad a range of subjects is offered as can be undertaken without sacrifice of thoroughness in the technical work. The curriculum corresponds, in general, to the usual full curriculum of pharmacy colleges. The work required of the student will occupy his whole time during the college year of nine months, and will usually exclude work in drug stores during term time. The brevity of this curriculum does not warrant extending to other than advanced students the privilege of electives. Upon its completion the student receives the degree of Graduate in Pharmacy.

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FIRST YEAR

Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Botany 14.....	3
Chemistry 11, †16.....	8	Chemistry 2.....	3
Pharmacy 13.....	3	Chemistry 52.....	5
Pharmacy 7.....	3	Pharmacy 16, †8.....	4
Pharmacy 9.....	3	Pharmacy 2.....	4
Pharmacy 11.....	2	Pharmacy 4.....	2

SECOND YEAR

Chemistry 53.....	3	Pharmacy 54.....	1
Pharmaceutical histology 15.....	3	Pharmacy 18, †12.....	6
Pharmacy 3.....	3	Pharmacy 14.....	5
Pharmacy 17, †8.....	4	Pharmacy 58.....	2
Chemistry 41, †8.....	4	Pharmacy 20.....	3

DEPARTMENTS OF INSTRUCTION

NOTE. A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

CHEMISTRY

PROFESSOR EASLEY; ASSISTANT PROFESSOR BURGHART; ASSISTANT PROFESSOR DURGIN; ASSISTANT PROFESSOR STEPHENSON; ASSISTANT PROFESSOR KIMBALL; MR. MITCHELL; MR. GOLDSMITH; MR. MILLER; MR. WEEKS

For undergraduates only

1. GENERAL CHEMISTRY.—This course deals with the general principles of the science. Lectures and recitations. Open to students who have taken chemistry in preparatory school. *Two hours a week.* To be accompanied by Course 5. Courses 1, 2, 5, and 6; or 3, 4, 5, and 6 constitute the first year's work in chemistry.

2. GENERAL CHEMISTRY.—This course is a continuation of Course 1. It is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. Lectures and recitations. *Three hours a week.* To be accompanied by Course 6.

3. GENERAL CHEMISTRY.—A course similar to 1 for those who have had no previous work in chemistry. *Two hours a week.* To be accompanied by Course 5.

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4. GENERAL CHEMISTRY.—A course similar to 2 but in continuation of 1 for those who did not take chemistry in the preparatory school. *Three hours a week.* To be accompanied by Course 6.

5. LABORATORY CHEMISTRY.—Laboratory work to accompany Course 1 or Course 3. †*Four hours a week.*

6. LABORATORY CHEMISTRY.—A continuation of Course 5 to accompany Course 2, or Course 4. †*Four hours a week.*

11. QUALITATIVE ANALYSIS.—This course includes the general reactions of the metals and acids with their qualitative separation. The subject is studied from the standpoint of the law of mass action and the ionic theory. 11a. *One hour a week.* 11b. *Eight hours a week.*

13. QUALITATIVE ANALYSIS FOR PHARMACISTS.—†*16 hours a week.*

15. ORGANIC CHEMISTRY.—An elementary one semester course in organic chemistry. Required of sophomores majoring in Agriculture. *Two hours class room and †two hours laboratory work a week.*

16. ORGANIC CHEMISTRY.—An elementary course giving in one semester a rapid view of the subject. Students who have sufficient time available are advised to take Courses 52 and 53 instead of this course, or Course 15. No prerequisite other than general chemistry. *Three hours class room and †four hours laboratory work a week.*

17. GAS AND FUEL ANALYSIS.—The work consists in the analysis of fuel and flue gases and the determinations of the proximate constituents and heating values of peat, fuel oils, and the common coals. †*Four hours a week.*

20. DESCRIPTIVE MINERALOGY.—An elementary course in which the minerals are largely identified by their physical properties. Open to all students. †*Four hours a week.*

27. LUBRICATION.—A study of lubricants, bearings, and methods of lubrication. *Two hours a week.* First nine weeks.

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41. ANALYSIS OF PHARMACEUTICAL PRODUCTS.—The work includes the simpler methods of quantitative analysis, especially those methods of interest to students in Pharmacy. †*Eight hours a week.*

44. PAPER MILL APPLIANCES.—The study of simple mechanism is followed by the study of machines common to the manufacture of paper of various kinds. *Two hours a week.*

For graduates and undergraduates

52. ORGANIC CHEMISTRY.—The work is principally with the compounds of the aliphatic series. Lectures, recitations, and laboratory work. Open to those who have taken Course 11. *Three hours class room; †four hours laboratory work a week.*

53. ORGANIC CHEMISTRY.—A continuation of Course 52. The work is chiefly in the aromatic series. *Three hours a week.*

54. ORGANIC ANALYSIS.—The methods for the quantitative determination in organic substances of carbon, hydrogen, nitrogen, sulphur, and the halogens. Open to those who have completed Courses 52 and 53. †*Four hours a week.*

55. CELLULOSE.—A laboratory course in which are studied the chemical reactions and characteristics of the commoner forms of cellulose. †*Four hours a week.*

57. ORGANIC PREPARATIONS.—The work consists in the preparation and study of typical organic compounds. This course must be preceded by Courses 52, 53. †*Six hours a week.*

58. DYEING.—The practical application of dyes to cotton, wool, and silk. †*Fifteen hours a week* for two weeks.

60. ELEMENTARY QUANTITATIVE ANALYSIS.—An introductory course illustrating the fundamental principles of gravimetric and volumetric methods. Open to students who have had Course 11. †*Ten hours a week.*

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61, 62. **VOLUMETRIC ANALYSIS.**—The student is made familiar with the common methods of volumetric analysis in addition to the simpler volumetric methods used in Course 60 which is a prerequisite. †*Four hours a week*, either semester.

63. **QUANTITATIVE ANALYSIS.**—Analysis of alloys, minerals, etc. Both gravimetric and volumetric methods are used. Open to students who have taken Course 60. †*Eight hours a week*.

64. **ASSAYING.**—The fire assay of typical ores for gold and silver. †*Four hours a week*.

66. **WATER ANALYSIS.**—The analysis of water is studied both from the sanitary and from the industrial standpoint. Open to students who have taken Course 60. †*Four hours a week*.

67. **ELECTRO-ANALYSIS.**—The electrolytic methods of quantitative analysis for copper, nickel, lead, and similar determinations. Open to students who have taken Course 60. †*Four hours a week*.

68. **CHEMICAL CALCULATIONS.**—The calculation of the results of chemical analyses by the use of graphic schemes, slide rules, factors and tables. Methods of changing routine analytic work so that the calculations may be simplified. The use of density tables as used commercially. *Two hours a week*.

70. **FUEL AND GAS CALCULATIONS.**—The methods of calculating the heat value of a coal, the constant of a calorimeter, the heat losses of a furnace, and similar problems. *Two hours a week*. Last nine weeks.

71, 72. **PHYSICAL CHEMISTRY.**—This course is devoted to the study of some of the more important principles and methods of physical chemistry in its several branches. Lectures and recitations. Open to students who have completed Chemistry 60, Mathematics 13, and Physics 1, 2, 4. *Three hours a week*, fall semester; *two hours a week*, spring semester.

74. **PHYSICAL-CHEMICAL METHODS.**—Determination of molecular weights; the study of solutions through conductivity and other methods; rate of reaction and chemical equilibrium; potential and electro-

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motive force; calorimetry; and the use of the more important instruments, such as refractometer, polariscope, and spectroscope. †*Six hours a week.*

75. METALLURGY OF IRON AND STEEL.—The occurrence, methods of extraction, properties, and alloys of iron. Open to students who have completed Courses 1, 2, 5, 6 or 3, 4, 5, 6. *Two hours a week.*

76. METALLURGY OF THE METALS OTHER THAN IRON.—A course similar to Course 75. The metals other than iron and steel are studied. Open to students who have completed Course 11. *Two hours a week.*

77. INDUSTRIAL CHEMISTRY.—General processes of technical chemistry, and selected topics, including the principal manufactured products of special interest. Lectures and recitations. As a part of this course an inspection trip is made to manufacturing plants of a chemical nature in New England. The expense of this trip the last few years has varied from \$15 to \$25 a year. Open to students who have completed Courses 11, 52, 53, 60. *Three hours a week.*

81. PAPER.—A lecture course on paper and the various processes of present day paper making. Open to those who have completed Courses 11, 52. *Two hours a week.*

82. PAPER MANUFACTURE.—A laboratory course in which paper machinery will be studied and paper of various kinds will be made. This course should be preceded by Course 81. †*Four hours a week.*

83. THE MAKING OF PULP.—A laboratory course in paper pulp mill chemistry. The work taken up is that ordinarily falling to the chemist of a pulp mill of either the soda, sulphate, or sulphite type. Open to students who have completed Course 60. †*Four hours a week.*

84. PULP.—A lecture course on the processes of manufacturing paper pulp. The uses of pulp other than in the manufacture of paper will also be discussed. *Two hours a week.*

86. BLEACHING OF PULP.—A laboratory course dealing with the methods of bleaching various kinds of pulp. Open to those who have taken Courses 82, 83. †*Four hours a week.* Last nine weeks.

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87. PAPER TESTING.—The testing of paper for bursting strength, tensile strength, stretch, crumpling, etc. Also the methods for estimating the kinds and percentages of the various fibers present in a sample of paper. †*Four hours a week.*

88. PAPER COLORING.—A laboratory course on mordants, dye-stuffs and their applications, testing, retention, matching of shades, etc. Open to those who have completed Course 55. †*Four hours a week.*

89. PAPER PROBLEMS.—A laboratory course for the study of selected processes of paper manufacture, as beating, sizing, loading, finishing, etc. Course 82 is a prerequisite. †*Four hours a week.*

90. HISTORY OF CHEMISTRY.—*One hour a week.*

93, 94. CHEMICAL LITERATURE.—Reviews and discussions of leading articles appearing in current English, German, and French chemical literature. Open to juniors majoring in the department who have completed the required work in modern languages. *One hour a week*, either semester.

96. MINERALOGY.—Open to those who have completed Course 60. †*Four hours a week.*

98, 99. THESIS WORK.—The thesis will embody the result of the study of a special problem in the laboratory. This problem will partake of the nature of original research and will ordinarily require *not less than* †*ten hours a week.*

Primarily for Graduates

101. ADVANCED ORGANIC CHEMISTRY.—A series of lectures on special topics in organic chemistry. Open to students who have completed Courses 52, 53. *Three hours a week.*

102, 103. QUALITATIVE ANALYSIS.—This course is similar to Course 11, but deals with organic compounds. It must be preceded by Courses 52, 53. †*Four hours a week*, either semester.

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104. TECHNICAL ANALYSIS.—An advanced course in the analysis of ores and industrial products. Open to students who have completed Courses 60, 63. †*Eight hours a week.*

105. ELECTROCHEMISTRY.—A lecture course on the general principles of the subject and its applications in industrial work. Open to students who have completed Courses 71, 72. *Two hours a week.*

106. INORGANIC PROBLEMS.— *Two hours a week.*

Laboratory fees covering general chemicals, gas, etc., are as follows: Course 27, \$1; Courses 20, 66, 86, 96, \$2; Courses 15, 17, 54, 55, 61, 62, 87, \$3; Courses 82, 83, 89, 101, 103, \$4; Courses 5, 6, 16, 41, 52, 74, 98, 99, \$5; Courses 57, 63, 104, \$6; Courses 11, 60, \$8; Course 13, \$10.

Broken apparatus and special chemicals are paid for at the chemical supply room by use of a "breakage card" obtained from the Treasurer's office. The portion of this card which has not been used will be redeemed at the end of the semester.

For courses in biological and agricultural chemistry, see description of courses given by the Department of Biological and Agricultural Chemistry.

SUMMER TERM

PROFESSOR EASLEY; ASSISTANT PROFESSOR ASHLEY;
ASSISTANT PROFESSOR DURGIN.

3s. GENERAL CHEMISTRY.—A course of lectures and demonstrations on elementary chemistry. No previous knowledge of the subject is assumed. The course deals chiefly with the non-metals.

4s. GENERAL CHEMISTRY.—A continuation of Course 3s dealing chiefly with the metals.

7s. THE TEACHING OF CHEMISTRY.—A course especially for teachers.

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17s. GAS AND FUEL ANALYSIS.—This work consists in the analysis of fuel and flue gases and the determination of the proximate constituents and heating values of the more common fuels. *Ten hours of laboratory work each week.*

51s. ORGANIC CHEMISTRY.—This is a general introductory course in the subject open to those who have had the freshman course in general chemistry or its equivalent. It is generally, though not necessarily, accompanied by laboratory work in the subject.

73s. PHYSICAL CHEMISTRY.—Lectures on selected chapters of the subject touching upon the following phases: molecular structure, the mass law, the theories of solution and their applications, especially along the line of electro-chemistry.

91s. INORGANIC PREPARATIONS.—A laboratory course in the purification and preparation of typical inorganic compounds. *Ten hours of laboratory work each week.*

LABORATORY WORK in general chemistry, qualitative analysis, quantitative analysis, physical chemistry, and organic chemistry will be arranged according to the needs of those attending the Summer Term.

GRADUATE WORK.—Attention is called to the courses that may be taken for graduate credit by those who already have a bachelor's degree (Courses 51s, 73s, 91s, 92s, and several of the courses indicated under "Laboratory Work"). It is the custom of the department to vary from year to year the courses offered in such a way that a student attending several successive summers will be able to complete the work necessary for a Master's degree. The fact that a considerable part of this work is of a laboratory character enables it to be varied in order and character to suit the needs of the individual student.

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CIVIL ENGINEERING

PROFESSOR BOARDMAN; PROFESSOR BROWN; ASSOCIATE PROFESSOR SPRAGUE;
ASSISTANT PROFESSOR LYON; ACTING ASSISTANT PROFESSOR
KINGMAN; MR. GRAHAM; MR. SMALL

For undergraduates only

1. PLANE SURVEYING.—Recitations, lectures, and field work. The recitations and lectures cover the general theory of plane surveying; description of surveying equipment, and the adjustment of the instruments; use of the chain, tape, compass, transit, and level, and other surveying operations. The field work consists of practice in the use of the chain, tape, compass, transit, level, and other surveying equipment. Required of all students in the Departments of Civil Engineering and Forestry. (Subdivision of field and recitation work is determined by the instructor. The work shall be the equivalent of twenty-seven periods of recitations or lectures and fifty-four periods of field work.)

2. PLOTTING.—This course consists chiefly of map drawing from field notes, by the different methods in common use. Course 1 is prerequisite. **Six hours a week.* First twelve weeks.

3. PLANE SURVEYING.—A course similar to the recitations and lectures in Course 1. Given to students in the Departments of Mechanical and Electrical Engineering. *Two hours a week.*

4. FIELD WORK IN SURVEYING.—A continuation of the field work in Course 1. This course consists of original surveys, problem work, adjustment of instruments, note keeping, etc. Course 1 is prerequisite. **Six hours a week.* Last six weeks.

5. FIELD WORK IN SURVEYING.—The use of the chain, compass, transit, and level. Required of all students in the Departments of Mechanical Engineering and Electrical Engineering. Given in connection with Course 3 but not with Course 1. **Six hours a week.* First six weeks.

6. RAILROAD CURVES.—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turnouts. Course 1 or 3 is prerequisite. *Three hours a week.* First twelve weeks.

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8. RAILROAD FIELD WORK.—This course consists of practice in running in railroad curves and turnouts. A general application of the theories of Course 6. Course 5 or Course 6 is prerequisite. †*Six hours a week.* Last six weeks.

20. MASONRY CONSTRUCTION.—A course including the discussion of stone and brick masonry; cement and their tests; mortar; plain and reinforced concrete; foundations; pneumatic caissons; culverts, bridge piers, and abutments. *Two hours a week.*

21. RAILROAD FIELD WORK.—The survey for a railroad about two miles in length. The preliminary and location surveys are made, including running in the curves, obtaining the topography, establishing the grade, and setting the slope stakes. Courses 4, 6, 8, or Courses 4, 27 are prerequisites. **Six hours a week.* First nine weeks.

22. ADVANCED SURVEYING.—This course consists of lectures, readings, and recitations on the theory and practice of base line measurement, triangulation, precise leveling, topographical surveying, the use of the plane table, and the theory and application of least squares. It is a preparation for Course 24. Course 21 is prerequisite. *Two hours a week.*

23. RAILROAD OFFICE WORK.—The office work of mapping the notes taken in Course 21, including the calculation of the earth work. Courses 2, 21 are prerequisites. **Six hours a week.* Last nine weeks.

24. SUMMER FIELD WORK.—This course consists of the practical application in the field and in the office of the principles given in Course 22. The work is given during the two weeks following Commencement. Course 22 is prerequisite.

25. RAILROAD CONSTRUCTION.—Recitations and lectures on the field and office practice of staking out and computing amount of excavation and fill; borrow-pits; haul; methods and materials of railroad construction; subgrade; roadbed; track and track work. Course 6 is prerequisite. *Two hours a week.*

26. HYDRAULICS.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow

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through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. *Three hours a week.*

27. **SIMPLE CURVES AND EARTHWORK.**—A lecture course on the theory and practice of simple railroad curves, and on the field and office practice of staking out and computing earthwork. Given to students outside of the Department of Civil Engineering who desire to take Courses 21 and 23. Courses 1, 4 or Courses 3, 5 are prerequisites. *One hour a week.*

28. **STRUCTURES.**—The theory of the simple beam; loads and reactions; vertical shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and bending moment under different systems of loadings, and to apply the same to the design of simple beams, also to familiarize him with the use of steel hand books, various tables, and the slide rule. Class room, *two hours a week.* Drawing room, *two hours a week.*

29. **MUNICIPAL ENGINEERING.**—The design of city street plans, comparative studies of pavements under different conditions of climate traffic, etc., general principles of sewer design, and construction and sewerage disposal; a study of city sanitation and water supply. Course 1 or 3 is prerequisite. *Two hours a week.*

31. **ROADS AND TRAILS.**—This course consists of lectures on the practice of building and maintaining trails and ordinary types of roads, and includes the design of simple beams and girders. For Forestry students. *One hour a week.*

33. **FOUNDATIONS.**—A short course in the fundamentals of design for different classes of foundations; bearing power of soils, manufacture of cement, mixing and testing of cement and concrete, cofferdams, pneumatic caissons. Required of students in Mechanical and Electrical Engineering. *One hour a week.*

35. **HYDRAULICS.**—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. *Two hours a week.*

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THESIS WORK. The study of and report upon some original investigation, or design. *Time to be arranged.* See regulations regarding degrees.

For graduates and undergraduates

51. **HYDRAULIC FIELD WORK.**—The measurement of the flow of rivers is illustrated by the use of the current meter. The data thus obtained is used to plot the rating curves, etc. The measurements taken are reported to the U. S. G. Survey. The expenses of this course are paid by the students. Required of students taking Option 1. Course 26 is prerequisite. †*Four hours a week.*

52. **HYDRAULIC ENGINEERING.**—A continuation of Course 55. Course 51 is prerequisite. *Three hours a week.*

53. **HYDRAULIC FIELD WORK.**—A short course similar to Course 51. Required of students taking Options 2 and 3. Course 26 is prerequisite. †*Two hours a week.*

55. **HYDRAULIC ENGINEERING.**—Rainfall, evaporation, and stream flow; the development and utilization of water power; the development of the modern turbine; inspection of hydro-electric plants. Lectures and recitations. Required of students electing Option 1. Course 26 is prerequisite. *Two hours a week.*

57. **STRUCTURES.**—A continuation of Course 28. The theory of stresses in framed structures, including the plate girder, bridge trusses, and roof trusses; reinforced concrete; the principles of designing. The object of this course is to train the student in the application of the principles of mechanics to the design of structures. *Three hours a week.*

58. **STRUCTURES.**—A continuation of Course 57. This course includes a study of the higher types of structures. *Three hours a week.*

59. **DESIGNING.**—This course takes up the design for some of the common types of steel structures, and the preparation of the shop drawings. Course 28 is prerequisite. †*Nine hours a week.*

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60. GRAPHIC STATICS.—Class and drawing room work in the graphical determination of shear and bending moment, and the analysis of bridge and roof trusses by graphical methods. Course 57 is prerequisite. *Two hours a week.*

62. DESIGNING.—A continuation of Course 59. Course 57 is prerequisite. †*Six hours a week.*

63. RAILROAD ENGINEERING.—A course discussing the economics of railroad location and operation. The railroad corporation, its rights and limitations; traffic; operating expenses; the locomotive and its work; distance; curves; grades. Required of students electing Option 2. Course 25 is prerequisite. *Three hours a week.*

64. RAILROAD ENGINEERING.—A course in railroad design. A map reconnaissance for a railroad about twelve to fifteen miles in length is made, applying the theories of Course 63. The final line is located, profile made, grades established, and drainage areas and culverts calculated. The rails, switch points, frogs, and ties for a turnout are designed. A railroad yard layout is computed and plotted. Required of students electing Option 2. Courses 23, 63 are prerequisites. †*Six hours a week.*

66. RAILROAD ENGINEERING.—A course of lectures and recitations studying various railroad problems; structures; grade crossings and elimination; yards and terminals; signals and interlocking; maintenance and betterment work as discussed in engineering periodicals. Required of students election Option 2. Course 63 as prerequisite. *Two hours a week.*

67. CEMENT LABORATORY.—This course consists of making the regulation commercial tests upon different samples of cement. A laboratory fee sufficient to cover the cost of materials used is charged. Required of students in Mechanical Engineering and in Civil Engineering. Course 20 is prerequisite for students in Civil Engineering. *The time varies.*

69. HIGHWAY ENGINEERING.—The location, drainage, construction, and maintenance of pavements and country roads under various conditions of soil, climate, traffic, etc.; highway economics, legislation and ad-

ministration. Required of students electing Option 3. Course 29 is prerequisite. *Three hours a week.*

70. ROAD MATERIALS LABORATORY.—Physical and chemical tests of sand, gravel, stone, brick, wood block, bituminous compounds, and other road materials. Course 29 and Chemistry 1 or 3, 2 or 4, 5, 6 are prerequisites. **Three hours a week.*

72. HIGHWAY DESIGN.—Drawing room study of highway location and relocation including plans of proposed improvement and construction of five miles of highway. Detailed estimates and specifications for same. Required of students electing Option 3. Course 69 is prerequisite. *†Six hours a week.*

74. HIGHWAY ENGINEERING.—An advanced course of lectures and recitations in highway economics, administration, and legislation; general highway engineering problems. Required of students electing Option 3. Course 69 is prerequisite. *Two hours a week.*

ELECTRICAL ENGINEERING

PROFESSOR BARROWS; ASSISTANT PROFESSOR HILLEGAS; ASSISTANT PROFESSOR HARVEY; MR. CHESWELL

For undergraduates only

1, 2. ELEMENTARY ELECTRICITY.—Fundamental laws and principles of electricity, series and parallel circuits, electrical instruments, electrical measurements. Recitations and problems. *Two hours a week.*

5. ELEMENTS OF ELECTRICAL ENGINEERING.—Application of laws studied in Courses 1 and 2. The magnetic circuit, the fundamental study of electrical apparatus. Recitations and problems. *Three hours a week.*

8. LABORATORY WORK.—Electrical measurements, operation and testing of direct current generators and motors. Application of the work of courses 1, 2, 5, 50. Laboratory fee \$5.00. *Four hours a week.*

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30. DIRECT CURRENT MACHINERY.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the mechanical and chemical engineer. Recitations and problems. *Two hours a week.*

31. ALTERNATING CURRENTS.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. *Two hours a week.*

33, 34. ELECTRICAL LABORATORY.—These courses are based on Courses 30 and 31. Operation of direct current and alternating current generators and motors; electrical power measurements. Laboratory fee \$5.00 per semester. †*Four hours a week.*

35. ALTERNATING CURRENT APPARATUS.—Alternating current measurements and the operation of alternating current machinery. Lectures, recitations, and problems. *Two hours a week.*

42. ELECTRICAL POWER.—Electrical measurements; the generation, transmission, and utilization of electrical power. Lectures, recitations, and problems. *Two hours a week.*

For graduates and undergraduates

50. ELEMENTS OF ELECTRICAL ENGINEERING.—A continuation of Course 5. Principles of construction, operation, and testing of direct current generators and motors; general engineering problems. Lectures, recitations, and problems. *Three hours a week.*

51. ALTERNATING CURRENTS.—Effect of alternating currents upon various electric circuits; voltage; current and voltage relations in inductive and capacity circuits; the theory, construction, and operation of apparatus and machinery. Lectures, recitations, and problems. *Three hours a week.*

52. ADVANCED ALTERNATING CURRENTS.—A continuation of Course 51. Polyphase apparatus; generation, transmission, distribution and utilization of polyphase power; problems involving previous courses. Lectures, recitations, and problems. *Five hours a week, first nine weeks*

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53, 55. ELECTRICAL DESIGN.—The design and construction of direct and alternating current machinery; relation of design to operating characteristic. Lectures and recitations, *two hours a week*. Calculations and design, *four hours a week*.

54. TECHNICAL REVIEWS.—A study of some special phase of electrical engineering and the presentation of it to the class. *One hour a week*.

56. ELECTRICAL POWER PLANTS.—Electrical equipment of power plants; methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. *Five hours a week*, last nine weeks.

58. ELECTRICAL TRANSMISSION.—High voltage long distance transmission; transmission line phenomena; methods and practice of securing most reliable service. Lectures, recitations, and problems. *Two hours a week*.

60. WIRELESS TELEGRAPHY.—Fundamentals of wireless telegraphy and telephony. Detectors; sending; receiving; tuning. *Two hours a week*. Given in 1917-18 and alternate years.

61. ILLUMINATING ENGINEERING.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. *Two hours a week*.

63. TELEPHONE ENGINEERING.—Principles of telephone apparatus and circuits; telephone systems; party lines, trunk lines; central stations. Lectures and recitations. *Two hours a week*.

64. ELECTRIC RAILWAY ENGINEERING.—Preliminary considerations in electric railway engineering; selection of proper equipment; car, bond, and transmission testing. Lectures, recitations, and problems. *Two hours a week*.

75, 76. LABORATORY WORK.—Alternating current measurements; operating, testing, and experimental work on power and lighting apparatus; alternating current instruments; generators, motors, transformers, syn-

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chronous converters, polyphase power measurements. Laboratory fee \$5.00 per semester. *Four hours a week.*

78. INSPECTION TRIP.—About a week's trip visiting some of the electrical and industrial plants of New England.

80. THESIS WORK.—The study of and report upon some original report or design. *Time to be arranged.* See regulations regarding degrees.

MECHANICAL ENGINEERING

PROFESSOR SWEETSER; ASSOCIATE PROFESSOR LEKBERG; ASSISTANT PROFESSOR TAYLOR; MR. DAVEE; MR. CARTER; MR. ALEXANDER

For undergraduates only

2. WOODWORKING.—Graded exercises in woodworking designed to make the student familiar with tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of the making of complete patterns and core boxes from drawings. Charge for materials \$4.00. **Six hours a week.*

4. WOODWORKING.—A shorter course than Course 1, arranged for students in Agriculture and Chemical Engineering. Charge for materials \$4.00. **Four hours a week.*

5. FORGE WORK.—Forging; welding; tool dressing. A set of lathe tools and cold chisels for use in machine shop is made by each student. Charge for material \$5.00. **Three hours a week.*

7, 8. MACHINE WORK.—Exercises in chipping and filing; lathe work; exercises on planer, shaper, and milling machines; making cut gears, machinists' taps, etc. Course 6 is a prerequisite. Charge for materials \$5.00. **Six hours a week.*

9, 10. MACHINE WORK.—Shorter course than 7, 8, for electrical engineers. Charge for materials \$5.00. **Four hours a week.*

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11. FOUNDRY WORK.—Foundry instruction is given in bench and floor molding, mixing of materials, core making, operation of cupolas, etc. Charge for materials \$4.00. **Three hours a week.*

14. POWER GENERATION AND APPLICATION.—A course arranged for students in Forestry and Chemical Engineering. Fuels; steam boilers; steam and gas engines; locomotives; log haulers, etc. *Two hours a week.*

For graduates and undergraduates

55. ELEMENTS OF MECHANICAL ENGINEERING.—A course of lectures, supplemented by recitations, designed to familiarize the student with the mechanical apparatus of manufacturing and power plants, and with the elementary formulae and constants used in simple engineering calculations. *One hour a week.*

59. KINEMATICAL DRAWING.—Supplementary to Course 56 which is a prerequisite. The drawings are of cams, gear teeth, and graphical studies of kinematical problems. *Three hours a week.*

56. KINEMATICS.—A study of motion in machine design; linkages, gears, cams, etc. *Three hours a week.*

61. MATERIALS OF ENGINEERING.—Properties of the metals; timber, rope; protective coatings and preservatives. *Two hours a week.*

64a. GRAPHICS.—A course given in connection with Course 64b. Classroom work. *One hour a week.*

64b. GRAPHICS.—A drawing room course supplementing Course 64a. The problems assigned include graphical determination of center of gravity, bending moments of beams; shear diagrams; stresses in bridge members and roof trusses. **Three hours a week.*

66. MACHINE DESIGN.—A study of the designing of machines; proportioning of parts for strength, rigidity, etc. Mechanics 5, 6 are prerequisites. *Three hours a week.*

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67. MACHINE DESIGN.—A continuation of Course 66, including the execution of the design of some typical machines. Course 66 is a prerequisite. **Six hours a week.*

68. VALVE GEARS.—A study of the principal steam engine valve motions; construction and use of valve diagrams; solution of practical problems in the drawing room. *Two hours a week.*

70. MECHANICAL LABORATORY.—Elementary experimental work such as calibration of instruments, steam calorimetry, use of steam and gas engine indicators, mechanical efficiency tests, etc. Laboratory charge \$2.00. *†Two hours a week.*

71. MECHANICAL LABORATORY.—Tests of materials, hydraulic testing, valve settings, steam and gasoline engines. Laboratory charge \$3.00. *†Three hours a week.*

72. MECHANICAL LABORATORY.—Tests of condensers, boilers, air compressors, fans, pumps, etc. Laboratory charge \$3.00. *†Three hours a week.*

74. MECHANICAL LABORATORY.—A course arranged for students in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs through orifices and nozzles; calibration of venturi meters. Laboratory charge \$2.00. *†Two hours a week.*

75. MECHANICAL LABORATORY.—A course arranged for students in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Laboratory charge \$2.00. *†Three hours a week.*

77. MECHANICAL LABORATORY.—A course arranged for students in Electrical Engineering. Calibration of instruments; testing of strength of materials; testing of steam engines, gas engines, hydraulic testing. Laboratory charge, \$2.00. *†Three hours a week.*

79. HEAT ENGINEERING.—Fundamental theories of gas and steam, with illustrative problems of practical form. Laws of thermodynamics; laws of gases; saturated and superheated vapors; Carnot's, Rankine's, and actual steam engine cycles; use of steam tables; steam calorimetry;

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etc. Mathematics 8 and Physics 1 and 2 are prerequisites. *Three hours a week.*

80. HEAT ENGINEERING.—The same as Course 79. Given in the spring term to Electrical Engineers. *Three hours a week.*

82. HEAT ENGINEERING.—Steam engines; flow of steam; air compressors; flow of air; refrigeration. Course 79 is a prerequisite. *Three hours a week.*

83. HEAT ENGINEERING.—Types and details of steam boilers, engines, and auxiliary machinery. Fuels; combustion; efficiency factors of the steam boiler plant; heat losses in the steam engine; compound steam engines; refrigeration. For students in Electrical Engineering a study of steam turbines and gas engine cycles and gas producer principles is included. Course 80 is a prerequisite. *Three hours a week.*

84. HEAT ENGINEERING.—A continuation of courses 80 and 83 dealing with steam engines; steam turbines; air compressors; refrigerating machinery, and gas engines; considerations affecting the design and efficiency of operation of heat motors. *Two hours a week.*

88. ENGINE DESIGN.—A study of problems affecting the design of a steam or gas engine with regard to their bearing on general machine design. An engine is partially designed in the drawing room. Courses 67 and 83 are prerequisite. **Six hours a week.*

91. HEATING AND VENTILATION.—Course 80 is a prerequisite. *Two hours a week.* First fourteen weeks.

94. HYDRAULIC MACHINERY.—Hydraulic turbine; water wheels; various features of hydraulic power plant development. *Three hours a week.* First nine weeks.

96. SEMINAR.—Preparation, presentation, and discussion of papers on leading engineering topics. *One hour a week.*

98. FACTORY ORGANIZATION AND MANAGEMENT.—Lectures and assigned reading bearing upon various types of organization for industrial

enterprises; planning and equipping of factory plants; systems of management; factory design and construction. *Two hours a week.*

INSPECTION TRIP.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. The expense to each student is in the neighborhood of thirty-five dollars. A complete schedule of the trip is pre-arranged and a member of the department staff is in charge of the party. Excuse from this trip may be obtained only upon application to a special committee.

THESIS.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall semester of the senior year. See regulations regarding degrees.

MECHANICS AND DRAWING

PROFESSOR WESTON; ASSOCIATE PROFESSOR GROVER; MR. FARNHAM; MR. LEIGHTON; MR. HULL

For undergraduates only

1. DRAWING.—Instruction and practice in technical freehand drawing and lettering, in the care of drawing instruments and their use in elementary problems involving right lines, circles, conic sections, and orthographic projections. **Six hours a week.*

2. DRAWING.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. **Six hours a week.*

3. DRAWING.—The elementary principles and problems of descriptive geometry, including intersections and developments. **Six hours a week.*

4. DRAWING.—A continued study of the making of working drawings of simple machines, together with instruction and practice in making titles for the same. **Six hours a week.*

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9, 10. DRAWING.—A course designed especially for students in Agriculture and for non-engineers. It combines the fundamental principles of Course 1 and Course 2. **Three hours a week.*

11. MECHANICS.—An elementary course in the fundamental principles of statics, kinematics and kinetics, with applications to practical problems involving frictional resistance, the transmission of power by belts, and the stresses and strains in beams, trusses, shafts, and columns. For students in Chemical Engineering. *Three hours a week.*

For graduates and undergraduates

51, 52. MECHANICS.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center of gravity and moment of inertia; the study of stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curves; torsional stresses and theories of stress in long columns. *Five hours a week.*

Primarily for graduates

101. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, hydro-mechanics, etc. *Two hours a week.*

102. ADVANCED MECHANICS.—A continuation of Course 101. *Three hours a week.*

PHARMACY

PROFESSOR JARRETT; DOCTOR GLANCY

2. ORGANIC PHARMACOGNOSY.—Macroscopic and microscopic study of organic drugs; identification, collection, and selection; active principles. *Four hours a week.*

3. MATERIA MEDICA.—The physical, chemical, physiological, and therapeutical properties of medicines; their doses; poisons and antidotes. *Three hours a week.*

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4. INORGANIC PHARMACOGNOSY.—Macroscopic study of inorganic drugs, tests, etc. *Two hours a week.*

7. PHARMACEUTICAL CHEMISTRY.—Chemical formulae; principles; chemical reactions; equations, with special reference to pharmaceutical processes. *Three hours a week.*

9. PHARMACEUTICAL ARITHMETIC.—The arithmetic pertaining to the science and art of pharmacy; special emphasis placed on the metric system in all of its practical details; the accurate use of the various current weights and measures. *Three hours a week.*

11. PHARMACEUTICAL LATIN.—The Latin pertaining to pharmacy; such essentials of inflection and syntax are taught as will serve the practical purpose of enabling the student to read prescriptions with ease and intelligence. *Two hours a week.*

13. THEORETICAL PHARMACY.—The exposition of the principles upon which pharmaceutical operations are based. This includes the study of pharmacopoeias, dispensatories, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; extemporaneous pharmacy; the principles of dispensing, etc. *Three hours a week.*

14. PHARMACOPOEIA.—A complete review of the pharmacopoeia with special reference to the chemical and pharmaceutical principles involved in the tests and preparations. *Five hours a week.*

16, 17. LABORATORY PHARMACY (MANUFACTURING).—The preparation of the most important U. S. P. galenicals and such additional U. S. P. and N. F. preparations as the time will permit, selecting the latter from those which require skill and careful manipulation. †*Eight hours a week.*

18. LABORATORY PHARMACY (DISPENSING).—This course teaches the compounding of medicine. The time is so arranged as to give a liberal number of hours for the actual work in the compounding of prescriptions. Incompatibilities, how to overcome them, etc. The work includes the preparation of solutions, mixtures, emulsions, pills, capsules, powders, cachets, tablets, tablet triturates, troches, ointments, plasters, suppositories, etc. †*Twelve hours a week.*

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20. PRESCRIPTIONS.—This course includes the abbreviations and symbols used; reading, labeling, checking, and filing. Critical examination of prescriptions from actual files, with reference to principles, and to physiological, pharmaceutical, and chemical incompatibilities; doses; methods and order of compounding, etc. *Three hours a week.*

22. ADVANCED LABORATORY (MANUFACTURING).—Manufacture of toilet preparations, etc. †*Four hours a week.*

51. URINALYSIS AND TOXICOLOGY.—The analysis of urine and the detection of the most common poisons. *Two hours a week.*

54. PHARMACY READINGS.—Current pharmacy literature: research and reference readings; abstracting; reports and theme writing on various subjects pertaining to pharmacy. *One hour a week.*

58. COMMERCIAL PHARMACY.—Trade or commerce in pharmaceutical products. It includes bookkeeping, business correspondence, commercial and business law, and business practice. *Two hours a week.*

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REQUIRED COURSES

MILITARY SCIENCE AND TACTICS

PROFESSOR CLARK

Of the following scheduled Courses 1 to 4 inclusive are required of all freshmen and sophomores with the exception of students in the one-year Pre-Medical Course. Students who are physically disqualified are also excused. Courses 5 to 8 inclusive are elective for juniors; and 9 to 12 are elective for seniors.

The required courses cover two years' instruction as laid down in War Department orders. For convenience in arranging the schedule, freshmen and sophomores are united in this instruction. Only Courses 1, 2 or 3, 4 will be given in the same year, Course 1 alternating with Course 2, and Course 2 with Course 4. It is necessary for each student to complete all four of these courses.

The elective courses are so scheduled that juniors and seniors may have the privilege of advanced theoretical military instruction in addition to the courses required for cadet officers. By action of the faculty, it is provided that for any junior or senior satisfactorily completing either Courses 5, 6, 9, or 10, as a cadet captain commanding a company, or as a cadet field officer, academic credit of four hours a week may be granted.

1. MILITARY ART—

(a) PRACTICAL

U. S. infantry drill regulations, to include the schools of the soldier, squad, and company, in close order and extended order; indoor rifle practice.

(b) THEORETICAL

Lectures on military organization, methods, map reading; the service of security; personal hygiene.

Three hours a week (counting one hour credit)

REQUIRED COURSES

2. MILITARY ART—

(a) PRACTICAL

U. S. infantry drill regulations, to include the school of the battalion in close and extended order, and ceremonies; indoor rifle practice.

(b) THEORETICAL

The service of information; combat; military history and policy.

Three hours a week (counting one hour credit)

3. MILITARY ART—

(a) PRACTICAL

The same as Course 1 (a).

(b) THEORETICAL

U. S. infantry drill regulations, to include the school of the company; small arms firing regulations; lectures.

Three hours a week (counting one hour credit)

4. MILITARY ART—

(a) PRACTICAL

The same as Course 2 (a).

(b) THEORETICAL

U. S. infantry drill regulations, to include the school of the battalion, and ceremonies; military hygiene and first aid.

Three hours a week (counting one hour credit)

5. MILITARY ART—

(a) PRACTICAL

Duties consistent with rank as cadet officers in connection with Courses 1 (a) or 3 (a).

(b) THEORETICAL. Course 7.

Five hours a week (counting three hours credit)

6. MILITARY ART—

(a) PRACTICAL

Duties consistent with rank as cadet officers in connection with Course 2 (a) or 4 (a).

(b) THEORETICAL. Course 8.

Five hours a week (counting three hours credit)

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7. MILITARY ART—

Minor tactics field orders; administration, preparation of papers. *Two hours a week* (counting two hours credit)

8. MILITARY ART—

Minor tactics, continued; property accountability, requisitions and returns; manual of interior guard duty. *Two hours a week* (counting two hours credit)

9. MILITARY ART—

(a) PRACTICAL

Duties consistent with rank as cadet officers in connection with Courses 1 (a) or 3 (a).

Five hours a week (counting three hours credit)

10. MILITARY ART—

(a) PRACTICAL

Duties consistent with rank as cadet officers in connection with Courses 2 (a) or 4 (a).

(b) THEORETICAL. Course 12.

Five hours a week (counting three hours credit)

11. MILITARY ART—

Tactical problems; the arms combined; map maneuvers; court-martial procedure. Strategy.

Two hours a week (counting two hours credit)

12. MILITARY ART—

Problems in mobilization and supply; American campaigns; the rifle in war.

Two hours a week (counting two hours credit)

PHYSICAL CULTURE AND ATHLETICS

PROFESSOR YOUNG; DOCTOR McCARTY

1. PHYSICAL TRAINING.—Class formation and figure marching; setting-up drills; free-arm and calisthenics movement: elementary dumb-

REQUIRED COURSES

bell, wand, and apparatus exercises. *One hour lecture and *two hours practice a week.*

2. PHYSICAL TRAINING.—Intermediate and advanced class exercises and combination apparatus work. *One hour lecture and *two hours practice a week.*

3. PHYSICAL TRAINING.—An elective advanced course. **Two hours gymnasium and two hours lecture.*

4. PHYSICAL TRAINING.—A continuation of Course 3. **Two hours gymnasium and two hours lecture.*

5. PRACTICAL HYGIENE.—*Two hours a week.*

6. PRACTICAL HYGIENE.—A continuation of Course 5. *Two hours a week.*

7, 8. PHYSICAL TRAINING.—A course for all women students of the first year and for students of second year Home Economics. Class formation; free exercises; elementary dumb-bell, Indian club, wand drills; folk-dancing and games. Attention is given to first principles of deportment. *Three hours a week.*

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MAINE AGRICULTURAL EXPERIMENT STATION

STATION STAFF

CHARLES DAYTON WOODS, Sc. D.	<i>Director</i>
JAMES MONROE BARTLETT, M. S.	<i>Chemist</i>
WARNER JACKSON MORSE, Ph. D.	<i>Plant Pathologist</i>
RAYMOND PEARL, Ph. D.	<i>Biologist</i>
FRANK MACY SURFACE, Ph. D.	<i>Biologist</i>
EDITH MARION PATCH, Ph. D.	<i>Entomologist</i>
HERMAN HERBERT HANSON, M. S.	<i>Associate Chemist</i>
MAYNIE ROSE CURTIS, Ph. D.	<i>Assistant Biologist</i>
ROYDEN LINDSAY HAMMOND	<i>Seed Analyst and Photographer</i>
JOHN RICE MINER, B. A.	<i>Computer</i>
JACOB ZINN, Agr. D.	<i>Assistant Biologist</i>
GLEN BLAINE RAMSAY, A. M.	<i>Assistant Plant Pathologist</i>
JOHN HOWARD PERRY	<i>Assistant Chemist</i>
WILLIAM RAYMOND RICH, B. S.	<i>Assistant Chemist</i>
WALTER WAITSTILL WEBBER, B. S.	<i>Assistant Chemist</i>
CHARLES HARRY WHITE, Ph. C.	<i>Scientific Aid</i>
WALTER EDSON CURTIS	<i>Scientific Aid</i>

GOVERNMENT OF THE STATION

By authority of the trustees the affairs of the Station are considered by the Station Council (see page 6), composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads of the various departments of the Station, the Dean of the College of Agriculture, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State

EXPERIMENT STATION

Grange, the State Dairymen's Association, the Maine Live Stock Breeders' Association, and the Maine Seed Improvement Association. The recommendations of the Council are referred to the trustees for final action. The Director is the executive officer of the Station and the other members of the staff carry out the lines of research that naturally come under their departments.

INCOME

The income of the Station for the year 1916-17 will probably be about \$60,000 from the following sources: Federal government, Hatch and Adams funds, \$30,000; State appropriations for animal husbandry investigations and investigations upon Aroostook Farm, \$5,000 each; sale of produce about \$8,000; analyses for the Commissioner of Agriculture about \$12,000. Thru appropriations to the university the State provides for the cost of printing Station publications. This aggregates about \$4,000 annually.

OBJECT

The purpose of the agricultural experiment stations is defined in the Act of Congress establishing them as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."

The work that the Station can undertake from the Adams Act fund is more restricted, as the fund can "be applied only to paying the neces-

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sary expenses for conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 25. The Station is well equipped in laboratories and apparatus, particularly in the lines of biological, chemical, entomological, horticultural, pomological, plant pathological, and poultry investigations. It has extensive collections illustrating the botany and entomology of the State. It has a library of over 4,200 volumes comprising agricultural and biological journals and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station "shall conduct scientific investigations in orcharding, corn, and other farm crops." The farm is situated in the counties of Kennebec and Androscoggin, largely in the town of Monmouth. It is on the Farmington branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, "Highmoor," is on the farm.

The farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. There are in the neighborhood of 3,000 apple trees upon the place which have been set from 20 to 30 years. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house has two stories with a large wing, and contains about fifteen rooms. It is well arranged for the Station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain. The basement affords limited storage for apples, potatoes, and roots.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be under "the general supervision, management, and control" of the Maine

EXPERIMENT STATION

Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on the main road to Houlton. The Bangor and Aroostook railroad crosses the farm. A flag station, "Aroostook Farm," makes it easily accessible by rail.

The farm contains about 275 acres, about half of which is cleared. The eight room house provides an office, and home for the farm superintendent. The large barn affords storage for hay and grain and has a large potato storage house in the basement.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, and entomological research.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, toods, fungicides, and insecticides. The law requires the Commissioner to collect samples and have them analyzed at the Station. The law also requires the Director of the Station to make the analyses and publish the results.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year form a volume of 300 to 400 pages and together make up the Annual Report. Bulletins are sent to the press of the State,

to exchanges, libraries, and scientific workers. Bulletins which contain matter of immediate value to practical agriculture are sent free to residents of Maine whose names are on the permanent mailing list.

The results of the work of inspection are printed in pamphlet form and are termed Official Inspections. About twelve such pamphlets, aggregating 150 to 200 pages, are printed annually, and are bound as an appendix with the Annual Report. Official Inspectors are sent to dealers within the State; those that have to do with fertilizers, feeding stuffs, and seeds are sent to farmers, and those reporting food and drugs are sent to a list of several thousand women within the State.

The Miscellaneous Publications consist of newspaper bulletins, circulars, and similar fleeting publications. From twenty to thirty are published each year and are sent to different addresses according to the nature of the subject matter.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive either or both the Bulletins and Official Inspections as they are published.

SUMMER TERM

SUMMER TERM

The work of the Summer Term is coordinate with that of the remainder of the year. The majority of the courses offered are of college grade, and, when completed, entitle the student to full credit on the university books. There are no examinations for admission, and students are permitted to enter any class in which they may satisfactorily carry on the work. Before counting this work toward a collegiate degree, the entrance conditions must be met.

Three classes of students may be benefited by the work of this term:

1. Teachers in the high schools and grammar schools who desire to fit themselves for more advanced positions.
2. Students who desire to anticipate work in their curricula, or who may have work in arrears. A student should be able to make one unit, the equivalent of a five hours' subject for eighteen weeks.
3. Courses in physics, mathematics, Latin, and other subjects are offered covering the work of the high school. In this way a student who is slightly deficient at the end of the school year may prepare himself for college. These courses give no credit on the university books.

COURSES OF STUDY

During the summer of 1916 courses were offered in the following subjects: Chemistry, Education, English, French, German, History, Horticulture, Latin, Mathematics, Physics, Sociology, and Spanish. These courses are described in connection with the courses offered at the university during the remainder of the year.

DAILY ASSEMBLY

Each morning except Saturdays and Sundays the faculty and students meet in the Chapel at 10.15 for a brief assembly. A short religious

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service is held, including a song service, and an address is given on some topic of current interest.

LIBRARY

Thruout the Summer Term, the university library reading rooms are open from 9 A. M. to 12 P. M. and from 2 P. M. to 5 P. M., daily, except Saturday afternoon and Sunday. The library privileges ordinarily accorded students, including the home use of books, are extended to students in the Summer Term.

LABORATORIES AND OBSERVATORY

The laboratories of the Departments of Physics and Chemistry are available for use of the students. There is ample provision for carrying on the various courses from the preparatory work to that of the graduate student. All necessary apparatus is supplied to the student without charge; a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The Observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the Observatory will be explained by Professor Hart in an evening lecture.

RECREATION

The athletic field of the university is available for use. Certain afternoons from four to six are set aside each week for baseball games and other athletic events. A tennis tournament is organized for those interested.

Under the management of a permanent committee appointed for that purpose, tramps, picnics, and longer trips to various places of interest will be arranged, as well as more informal occasions on the campus where the students have opportunity to meet each other and the members of the faculty.

For the further entertainment of the Summer Term students and their friends, the gymnasium will be open one evening of each week, where music will be furnished and opportunity afforded for informal social intercourse.

SUMMER TERM

EXPENSES

Tuition

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

An additional charge of \$1 an hour is made for registration in excess of fifteen hours a week.

Tuition covers all charges for instruction up to fifteen hours a week, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories. This fee must be paid upon registration.

Rooms for Men

There are two dormitories for men, Oak Hall and Hannibal Hamlin Hall. Rooms may be obtained for \$2.00 a week for one person or \$2.50 with two in a room. In Hannibal Hamlin Hall there are a few higher priced rooms.

Rooms for Women

The dormitory used for women students in the Summer Term on the campus is Balentine Hall. The rates are \$2.00 a week, one in a room, or \$2.50 with two in a room.

Meals

In the dining room of Balentine Hall meals will be served for \$5.00 a week.

The University Inn, located in the village of Orono, is under university management and is open for summer students. Rooms in private families may be secured for those who prefer them.

Men who wish to bring their families should write early. Special effort will be made to secure suitable accommodations for them.

IN GENERAL

Prospective students are invited to consult Dean J. S. Stevens, or any of the instructors, for further details regarding any of the courses, or

UNIVERSITY OF MAINE

upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers of Maine, and others who desire to avail themselves of these privileges.

If there should be a considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the courses outlined in this catalog were for the summer of 1916. Unimportant changes are likely to be made in 1917.

A Summer Term Bulletin announcing courses to be given in 1917, will be issued about March 1, 1917. A copy will be mailed upon application.

ALUMNI ASSOCIATIONS

ALUMNI ASSOCIATIONS

GENERAL ASSOCIATION

- President, Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.
Vice President, J. Harvey McClure, 1905, 49 Hammond St., Bangor
Recording Secretary, Fremont L. Russell, 1885, Orono
Alumni Secretary, Lowell J. Reed, 1907, Orono
Treasurer, James A. Gannett 1908, Orono
Necrologist, James N. Hart, 1885, Orono

ADVISORY COUNCIL

AT LARGE

	Term Expires.
Edward H. Kelly, 1890, 2 Fairmount Park, East, Bangor	1916
C. Parker Crowell, 1898, 44 Central St., Bangor.....	1916
George H. Hamlin, 1873, Orono.....	1917
Albert H. Brown, 1880, Old Town.....	1917
Louis C. Southard, 1875, 601 Tremont Building, Boston, Mass.	1918
Charles E. Oak, 1876, 39 Hammond St., Bangor.....	1918
Perley B. Palmer, 1896, Orono.....	1919
Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.	1919
Paul L. Bean, 1904, State House, Augusta.....	1920
Charles C. Elwell, 1878, 71 College St., New Haven, Conn.	1920

College of Agriculture

Whitman H. Jordan, 1875, Geneva, N. Y.....	1915
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College of Arts and Sciences

DeForest H. Perkins, 1900, City Hall, Portland.....	1917
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College of Law

(Vacancy) 1916

College of Technology

George F. Black, 1886, 238 St. John St., Portland..... 1918

SPECIAL ASSOCIATIONS

COLLEGE OF LAW

President, James M. Gillin, 1913, 12 Columbia Building, Bangor
Vice President, Forrest B. Snow, 1909, Bluchill
Secretary, Mark A. Barwise, 1913, 101 Third St., Bangor
Treasurer, Charles H. Reid, Jr., 1903, 7 Hammond St., Bangor

SCHOOL AND TEACHERS' COURSES IN AGRICULTURE

President, Walter S. Jones, 1912, State Hospital, Bangor
Vice Presidents, George P. Fogg, 1908; Arthur W. Richardson, 1913
Secretary-Treasurer, Perley F. Smith, 1912, R. F. D. 1, East Brownfield

LOCAL ASSOCIATIONS

Androscoggin Valley.—President, Walter L. Emerson, 1909; Secretary, Charles B. Hosmer, 1911, 64 Lisbon St., Lewiston
Boston.—President, Elmer J. Wilson, 1917.
Secretary, Wayland D. Towner, 1914, 120 Salem St., Malden, Mass.
Knox County.—President, A. P. Starrett, 1882; Secretary, R. S. Sherman, 1906, Tillson Wharf, Rockland
New York.—President, Albert E. Mitchell, 1875; Secretary, Ashton H. Hart, 1911, 161 Emerson Pl., Brooklyn, N. Y.
Pacific.—President, George R. Sweetser, 1909; Secretary, Walter W. Black, 1907, 527 Taylor St., Portland, Ore.
Penobscot Valley.—President, J. Harvey McClure, 1905; Secretary, William R. Ballou, 1912, 50 Blackstone St., Bangor
Pittsburgh.—President, J. Wilson Brown, 1899; Secretary, Carl D. Smith, U. S. Bureau of Mines, 40th and Butler Sts.

ALUMNI ASSOCIATIONS

- Washington, D. C.—President, Lore A. Rogers, 1896; Secretary, Henry W. Bearce, 1906, Bureau of Standards
- Western.—President, Charles A. Morse, 1879; Secretary, Samuel B. Lincoln, ex-1915, 619 First National Bank Building, Chicago, Ill.
- Western Maine.—President, Edwin J. Haskell, 1872; Secretary, Albert E. Anderson, 1909, Masonic Temple, Portland

UNIVERSITY OF MAINE

APPOINTMENTS

SPEAKERS AT THE JUNIOR EXHIBITION

Harold Pierce Andrews, Monmouth; Grace Bidwell Bristol, West Hartford, Conn.; Helen Lois Danforth, Bangor; Langdon Jackson Freese, Bangor; Gerald Coker Marble, Skowhegan; Alice Mildred Poore, Robbinston.

MEMBERS OF PHI KAPPA PHI

Zella Elizabeth Colvin, Williamsburg, Indiana; Emery Davis Eddy, Bangor; Marie Frederica Foster, Bar Harbor; Archelaus Lewis Hamblen, Gorham; Stacy Clifford Lanpher, Foxcroft; Fred Perley Loring, West Pownal; Frances Marie Lougee, Winterport; Walter Lee Mason, Orono; Earl Stephen Merrill, Orono; Alice Mildred Poore, Robbinston; Samuel Rudman, Bangor; Allen G Smith, Bluehill; Winfred Eugene Stoddard, Deer Isle; Omar Fred Tarr, Auburn; Gladys Thompson, Orono; Mary Evelyn Winship, Livermore Falls.

MEMBERS OF TAU BETA PI

1916

Harold Wilhelm Coffin, Portland; Erlon Victor Crimmin, Winterport; Karl Moody Currier, Brewer; Walter Davis Emerson, Orono; Everett Goss Ham, Foxcroft; Otis Carroll Lawry, Fairfield; Ansel Alva Packard, Belfast; Samuel Rudman, Bangor; Allen G Smith, Bluehill; Omar Fred Tarr, Auburn; Roy Alva Wentzell, Livermore Falls.

1917

Gerald Coker Marble, Skowhegan; Clarence Llewellyn Smith, Vinalhaven; Marshall Odell Smith, Yarmouth; George Knowlton Wadlin,

APPOINTMENTS

East Northport; Harvey Cyrus Waugh, Levant; Elwood Morton Wilbur, Sorrento.

MEMBERS OF ALPHA ZETA

1917

Charles William Bayley, Wells; Leroy Naham Berry, South Bridgton; Charles Edward Crossland, Lawrence, Mass.; Earle Leslie Emery, Salisbury Cove; Daniel Emerson Green, Brewer; Daniel Clair Hutchinson, Dover; Rudolph Stoehr, Sabattus; Russel Vale Waterhouse, Kennebunk; Donald Stuart Welch, Norway; Lawrence Blanchard Wood, Kingfield.

1918

Lawrence Tilton Merriman, Harpswell Center; Ferdinand Josiah Penley, Lewiston; Carrol Coffin Reed, Hollis, New Hampshire; Willard Case Sisson, Hartford, Conn.; Lee Vrooman, Greenville.

GENERAL HONORS

Charles Leon Blackman, Peak Island; Zelli Elizabeth Colvin, Williamsburg, Indiana; George Franklin Eaton, Bangor; Emery Davis Eddy, Bangor; Marie Frederica Foster, Bar Harbor; Archelaus Lewis Hamblen, Gorham; Stacy Clifford Lanpher, Foxcroft; Fred Perley Loring, West Pownal; Frances Marie Lougee, Winterport; Walter Lee Mason, Orono; Earl Stephen Merrill, Orono; Alice Mildred Poore, Robbinston; Harry Elwood Rollins, Bangor; Samuel Rudman, Bangor; Sarah Singleton, Bangor; Allen G Smith, Bluehill; Winfred Eugene Stoddard, Deer Isle; Omar Fred Tarr, Auburn; Dorothy Thompson, Orono; Gladys Thompson, Orono; Mary Evelyn Winship, Livermore Falls.

SENIORS WHO HAVE SATISFACTORILY COMPLETED THE COURSES IN MILITARY SCIENCE

Harold Wilhelm Coffin, Portland; Carroll Melbourne DeWitt, Brewer; Omar Kelsey Edes, Dexter; Elwood Stuart Fraser, Peak Island; Archelaus Lewis Hamblen, Gorham; Donald Josiah MacIntire, Biddeford; Ansel Alva Packard, Belfast.

UNIVERSITY OF MAINE

ORGANIZATION OF THE UNIVERSITY OF MAINE REGIMENT

Frank S. Clark, Captain Coast Artillery Corps, U. S. Army,
Professor of Military Science and Tactics

Adjutant, commanding Head-
quarters Co.

Machine Gun Company

Cadet Captain H. L. Jenkins
Cadet Captain C. L. Stephenson
Cadet 1st Lieutenant O. C. Turner
Cadet 2nd. Lieutenant G. M. Carter
Cadet 2nd. Lieutenant D. W. Norton

FIRST BATTALION

Cadet Major, N. F. Mank

Adjutant, Cadet 1st Lieutenant L. T. Merriman

Company A	Cadet Captain	G. C. Robinson
	Cadet 1st Lieutenant	R. C. Chapman
	Cadet 2nd Lieutenant	W. E. Reynolds
Company B	Cadet Captain	R. J. Travers
	Cadet 1st Lieutenant	F. O. Stephens
	Cadet 2nd Lieutenant	M. L. Hill
Company C	Cadet Captain	W. F. O'Donoghue
	Cadet 1st Lieutenant	W. C. Sisson
	Cadet 2nd Lieutenant	H. B. Caldwell
	Cadet 2nd Lieutenant	H. A. Ellsworth
Company D	Cadet Captain	F. T. McCabe
	Cadet 1st Lieutenant	D. M. Libby
	Cadet 2nd Lieutenant	S. B. Bubier

APPOINTMENTS

SECOND BATTALION

Cadet Major, H. E. Watkins

Adjutant, Cadet 1st Lieutenant J. H. Magee

Company E	Cadet Captain	W. C. Barrett
	Cadet 1st Lieutenant	V. E. Abbott
	Cadet 2nd Lieutenant	G. R. Bailey
Company F	Cadet Captain	E. A. McLean
	Cadet 1st Lieutenant	M. S. Perkins
	Cadet 2nd Lieutenant	E. T. Nealey
Company G	Cadet Captain	R. M. Somers
	Cadet 1st Lieutenant	G. R. Stott
	Cadet 2nd Lieutenant	G. C. Newell
Company H	Cadet Captain	R. N. Atherton
	Cadet 1st Lieutenant	M. W. Wescott
	Cadet 2nd Lieutenant	J. E. Speirs

PRIZES AWARDED

Kidder Scholarship, Henry Andrew Peterson, Portland.

Western Alumni Association Scholarship, Charles Fernald Niles, Rumford.

Pittsburgh Alumni Association Scholarship, Clarence Llewellyn Smith, Vinalhaven.

Junior Exhibition Prizes, Helen Lois Danforth, Bangor, and Langdon Jackson Freese, Bangor.

Sophomore Essay Prizes, Thelma Louise Kellogg, Vanceboro, and Lee Vrooman, Greenville.

Father Harrington Prize, Helen Loggie Stuart, Bangor.

Holt Prizes, Charles William Ruffner, Arcadia, Pa., Lewis Herman Kriger, Portland, Guy Casley Palmer, Patten.

Walter Balentine Prize, Ray Milo Carter, West Hawley, Mass.

Franklin Danforth Prize, Fred Perley Loring, West Pownal.

Kennebec County Prize, Harold Wilhelm Coffin, Portland.

King Prize, Alice Mildred Poore, Robbinston.

Pharmacy Prize, Frank Irving Hargreaves, Sanford.

Wingard Cup, Harland Stimson Rowe, Springvale.

UNIVERSITY OF MAINE

COMMENCEMENT

The Commencement exercises of 1916 were as follows:

SATURDAY, JUNE 10

- 5.00 P. M. Annual Meeting of Phi Kappa Phi, the Library
- 6.00 P. M. Annual Banquet of Phi Kappa Phi, Hannibal Hamlin Hall
- 8.30 P. M. King Oratorical Prize Contest, the Chapel

SUNDAY, JUNE 11

- 10.30 A. M. Baccalaureate Address, by Lemuel Herbert Murlin, D. D.,
LL.D., President of Boston University

MONDAY, JUNE 12

- 9.00 A. M. "Planting of the Pine," by the Women of the Class of
1916, the Campus
- 10.00 A. M. "Fanchon the Cricket," by Women Students, the Gym-
nasium
- 2.00 P. M. Class Day Exercises, the Campus
- 2.30 P. M. Meeting of the Alumni Advisory Council, the Library
- 4.00 to 6.00 P. M. Open House at Fraternity Houses and the Women's
Dormitories
- 8.00 to 10.00 P. M. President's Reception, the Library
- 9.00 P. M. Fraternity Reunions, the Fraternity Houses

TUESDAY, JUNE 13

- 10.00 A. M. Concert, by the Musical Clubs, the Gymnasium
- 10.00 A. M. Annual Meeting of the College of Law Alumni Association,
Stewart Hall

COMMENCEMENT

- 2.30 P. M. Maine-Colby Baseball Game, Alumni Field
- 4.30 to 6.30 P. M. Alumni Luncheon, the Gymnasium
- 4.30 to 6.30 P. M. Alumnae Luncheon, the Chapel
- 6.30 P. M. Annual Meeting of the General Alumni Association, the Chapel
- 8.00 P. M. "Lèlio and Isabella," by the Maine Masque, the Gymnasium

WEDNESDAY, JUNE 14

- 9.30 A. M. Commencement Exercises, the Campus; Address by Hamlin Garland
- 11.30 A. M. "Leavetaking," by the Class of 1916, the Campus
- 12.00 M Commencement Dinner, the Gymnasium
- 8.00 P. M. Commencement Ball, the Gymnasium.

UNIVERSITY OF MAINE

DEGREES CONFERRED

COLLEGE OF AGRICULTURE

BACHELOR OF SCIENCE

Donald Vince Atwater (in Biology).....	Fort Fairfield
Charles Leon Blackman (in Animal Husbandry).....	Peak Island
Horace Everett Boothby, Jr. (in Horticulture).....	Springfield, Vt.
Arthur John Bower (in Animal Husbandry).....	Methuen, Mass.
Llewellyn Morse Dorsey, (in Dairy Husbandry).....	Augusta
James Carroll Elliott (in Dairy Husbandry).....	North Rumford
Thomas Everett Fairchild (in Poultry Husbandry).....	Livermore Falls
Elwood Stuart Fraser (in Dairy Husbandry).....	Peak Island
Roger Locke Gowell (in Dairy Husbandry).....	Poland
Frank William Gray, Jr. (in Animal Husbandry).....	Jacksonville
Florence Evelyn Greenleaf (in Home Economics).....	Auburn
Archelaus Lewis Hamblen (in Horticulture).....	Gorham
Marguerite Jones (in Home Economics).....	Waldoboro
Lewis Herman Kriger (in Animal Husbandry).....	Portland
Fred Perley Loring (in Agronomy).....	West Pownal
Donald Josiah MacIntire (in Dairy Husbandry).....	Biddeford
Norman Lyle Mathews (in Agronomy).....	Waterville
Lester George Morris (in Dairy Husbandry).....	Bingham
Guy Casley Palmer (in Animal Husbandry).....	Patten
Minnie May Park (in Home Economics).....	Orono
Myron Columbus Peabody (in Animal Husbandry).....	Exeter
Lawrence Eugene Philbrook (in Animal Husbandry).....	Shelburne, N. H.
Marian Elizabeth Plummer (in Home Economics).....	Old Town
Raymond Eaton Rendall (in Forestry).....	Melrose, Mass.
Frederick Robie (in Horticulture).....	Gorham
Charles William Ruffner (in Dairy Husbandry).....	Arcadia, Pa.

DEGREES CONFERRED

Sibyl Lois Russell (in Home Economics).....	Orono
Oscar Harold Sanborn (in Animal Husbandry).....	Weld
Earle Eaton Shaw (in Forestry).....	Orono
James Emmons Totman (in Agronomy).....	Sidney
John Lowell Whittier (in Animal Husbandry).....	Biddeford

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

Basil Edward Barrett (Economics).....	Bluehill
James Edward Barry (Economics).....	Bangor
Timothy Doten Bonney (Mathematics).....	Mexico
Arthur Erwin Butters (Economics).....	Old Town
Zella Elizabeth Colvin (Mathematics).....	Williamsburg, Ind.
Guy Berwyn Condon (Economics).....	South Penobscot
LeRoy Coombs (English).....	Portland
Doris Currier (German).....	Bangor
Fred Holmes Curtis (German).....	Addison
Mary Muriel DeBeck (Latin).....	Franklin
Carroll Melborne DeWitt (Economics).....	Brewer
Charles Edmund Dole (Economics).....	Bangor
Michael Columbus Driscoll (French).....	North Abington, Mass.
Emery Davis Eddy (Biology).....	Bangor
Omar Kelsey Edes (Economics).....	Dexter
Winfred Herbert Edminster (Biology).....	Dixmont
Ralph William Fannon (Chemistry).....	Appleton, Wis.
William Thomas Faulkner (Economics).....	Greene
Marie Frederica Foster (Mathematics).....	Bar Harbor
Isabel Frances Frawley (French).....	Bangor
Philip Burr Grant (Latin).....	Hampden
Ernest Linwood Gray (History).....	South Berwick
Maynard Fred Jordan (Mathematics).....	Islesford
Frances Marie Lougee (German).....	Winterport
Harry Richard Lovely (Biology).....	Gardiner
Walter Lee Mason (Physics).....	Monroe
Earl Stephen Merrill (Biology).....	Orono
Mildred Cora Morrison (French).....	Bar Harbor
Harry Dennis O'Neil (English).....	Bangor

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Alice Mildred Poore (Latin).....	Robbinston
Elmer Deming Potter (English).....	Topsham
Clinton Everett Purington (Economics).....	Portland
Madeline Frances Robinson (French).....	Bangor
Harry Elwood Rollins (Education).....	Bangor
Grace Ruth Sawyer (French).....	Old Town
Albion Franklin Sherman (Economics).....	Bar Harbor
Richard Leslie Silva (Economics).....	Provincetown, Mass.
Winfred Eugene Stoddard (Education).....	Deer Isle
Dorothy Thompson (German).....	Orono
Gladys Thompson (German).....	Orono
Mary Evelyn Winship (English).....	Livermore Falls
Basil Gibson Woods (English).....	Bangor

BACHELOR OF PEDAGOGY

Ernest Loren Cookson.....	Albion
Hoyt Davis Foster.....	Deer Isle
Herschel Scott Libby.....	Berry Mills

COLLEGE OF LAW

BACHELOR OF LAWS

Franz Upham Burkett (A. B. Bowdoin, 1911).....	Union
Harris Samson Crahmer.....	Bangor
Earle Erwood Crommett.....	Ridgelyville
Floyd Mason Derrah.....	Portland
John Raymond Dubee.....	Haverhill Mass.
George Franklin Eaton.....	Bangor
John Abraham Garakian (B. A., Robert 1909).....	Bangor
Granville Chase Gray.....	Brewer
Joseph Edmund Harvey.....	Saco
Donald Campbell Jewett.....	Cherryfield
Stacy Clifford Lanpher (B. A. Maine, 1908).....	Foxcroft
Bernard Joseph McParland.....	Lawrence, Mass.
Miller Bernard Moren.....	Lowville, N. Y.
Harry Leland Peterson.....	Danielson, Conn.
James Patrick Quine.....	Bangor
Harold LeRoy Reed.....	Northeast Harbor

DEGREES CONFERRED

William Nathaniel Rogers.....	Bangor
Sarah Singleton.....	Bangor
Charles Sumner Taylor.....	Deer Isle
Horace Hamblen Towle, Jr.....	Portland
Thomas Nathan Weeks.....	Winslow

COLLEGE OF TECHNOLOGY

BACHELOR OF SCIENCE

Harold Dudley Ashton (in Civil Engineering).....	Springfield, Mass.
Lewis Orin Barrows (in Pharmacy).....	Newport
Robert Whitney Bartlett (in Chemistry).....	Westfield, Mass.
Roger Warren Bell (in Civil Engineering).....	Arlington, Mass.
Ensor Harding Blanchard (in Civil Engineering).....	Buenos Aires, Argentina, S. A.
Robert Germain Blanchard (in Civil Engineering).....	Cumberland Center
Lewis Henry Blood (in Chemistry).....	Foxcroft
Burke Bradbury (in Electrical Engineering).....	Old Town
Walter True Brown (in Mechanical Engineering).....	West Bath
Forest LeRoy Buckley (in Civil Engineering).....	Leeds
Harold Wilhelm Coffin (in Electrical Engineering).....	Portland
Erlon Victor Crimmin (in Electrical Engineering).....	Winterport
Karl Moody Currier (in Chemical Engineering).....	Brewer
John Maynard Dodge (in Mechanical Engineering).....	Boothbay
Walter Davis Emerson (in Mechanical Engineering).....	Orono
Charles Herbert Folsom (in Civil Engineering).....	Dexter
John White Glover (in Mechanical Engineering).....	Rockland
Everett Goss Ham (in Chemical Engineering).....	Foxcroft
Lawrence Milliken Hunt (in Chemical Engineering).....	Old Town
Julius Henry Kritter (in Civil Engineering).....	Bradford, Mass.
Charles Kent Lane (in Chemical Engineering).....	Rockland, Mass.
Otis Carroll Lawry (in Chemistry).....	Fairfield
Benjamin West Lewis (in Electrical Engineering).....	Boothbay Harbor
Clarence Earl Libby (in Chemical Engineering).....	Albion
Thomas Gerald Mangan (in Civil Engineering).....	Pittsfield, Mass.
Everett Keith Mansfield (in Chemical Engineering).....	Fryeburg
Howard Winfield Mayers (in Civil Engineering).....	Dresden
Ralph Lee Moore (in Civil Engineering).....	Hallowell

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Robert McGregor Moore (in Mechanical Engineering).....	Biddeford
Arno Wilbur Nickerson (in Chemical Engineering).....	Brewer
William Robert Nugent (in Civil Engineering).....	Portland
Francis William O'Rourke (in Chemical Engineering).....	Saco
Ansel Alva Packard (in Electrical Engineering).....	Belfast
Marlborough Packard (in Civil Engineering).....	Sebec Lake
Ferdinand Zanoni Phelps (in Chemistry).....	Foxboro, Mass.
William Raymond Rich (in Chemistry).....	Gorham
Samuel Rudman (in Civil Engineering).....	Bangor
Norman Clifford Small (in Civil Engineering).....	Farmington
Allen G Smith (in Mechanical Engineering).....	Bluehill
Harry Edward Stone (in Electrical Engineering).....	Cornish
Omar Fred Tarr (in Chemical Engineering).....	Auburn
Walter Waitstill Webber (in Chemistry).....	Lewiston
George Thomas Woodward (in Mechanical Engineering).....	Lisbon Falls

GRADUATE IN PHARMACY

Earle Oliver Blanchet.....	Northampton, Mass.
Horace Elwin Grant.....	Waterville
Frank Irving Hargreaves.....	Sanford
William James Mackin.....	Millinocket
Chester Robert Parker.....	Bluehill
Carroll Russell Staples.....	Norridgewock

ADVANCED DEGREES

MASTER OF ARTS

Lucretia Almira Davis (French [B. A., 1915].....	Old Town
Raymond Donald Douglass (Mathematics) [B. A., 1915].....	Gorham
Carl Bertrand Estabrooke (History) [B. A., 1912].....	Orono
Caro (Beverage) Faulkner (German) [B. A., Colby, 1907].....	Greene
Norman Richards French (Physics) [B. A., 1914].....	Fort Fairfield
Ruth Armstrong Grahame (History) [A. B., Park, 1914].....	Kansas City, Mo.
Margaret June Kelley (German) [B. A., 1912].....	Bangor
Antoinette Treat Webb (English) [B. A., 1912].....	Bangor
Roscoe Woods (Mathematics) [B. A., Georgetown College, 1914]	
	Vanarsdell, Ky.

DEGREES CONFERRED

MASTER OF SCIENCE

Albert Davis Conley (Chemistry) [B. S., 1911; Ch. E., 1914].....	Orono
Orville Alvin Jamison (Biology) [B. Sc., Ohio State, 1912].....	Amherst, Mass.
Sidney Winfield Patterson (Biology) [B. S., 1914].....	Winslow
Adrian Archibald Achilles St. Marie (Chemistry) [B. S., Minnesota, 1914]	Crookston, Minn.
Neil Carpenter Sherwood (Biology) [B. S., 1914].....	Cherryfield

CHEMICAL ENGINEERING

Edward Thomas Aloysius Coughlin [B. S., 1913].....	Kalamazoo, Mich.
Arthur Clement Eaton [B. S., 1911].....	Edgewater, N. J.
Robert Elliott Hussey [B. S., 1912].....	Northfield, Vt.
Raymond Pratt Norton [B. S., 1910].....	Washington, D. C.

CERTIFICATES

IN HOME ECONOMICS

Mary Newton Beckett.....	Calais
Mollie Geneva Burleigh.....	South Biddeford
Grace Elizabeth Clapp.....	West Somerville, Mass.
Lucile Greeley Clark.....	Freedom
Edith Gertrude Clark.....	Peak Island
Fannie Persis Flint.....	West Baldwin
Veda Desire Folley.....	Sangerville
Mildred Iva Jones.....	Unity
Emma Spring Perry.....	Machias
Erma Lucile Royal.....	Houlton
Helen Perley Taylor.....	Peabody, Mass.

IN THE SCHOOL COURSE IN AGRICULTURE

Harry Stowe Bennett.....	Millbury, Mass.
John Earl Fowler.....	Portland
Ellsworth Joseph Hobbs.....	Mattawamkeag
Leon Elwin Lambert.....	Brewer
Edwin Clarence Martin.....	Liberty

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Joseph Henry Moore, Jr.....	Winthrop
George Edward Roberts, Jr.....	Weeks Mills
Reid Myles Sherman.....	Island Falls
Vergne Rockwood Snow.....	Portland
George Fay Trueworthy.....	Mattawamkeag

DEGREES OUT OF COURSE

BACHELOR OF LAWS

Frank Bernard Clancy.....	Nashua, N. H.
as of the Class of 1910	

BACHELOR OF SCIENCE

Edwin Freeman Bearce (in Electrical Engineering).....	Chillicothe, Ohio
as of the Class of 1905	

Vaughn Jones (in Mechanical Engineering).....	Bangor
as of the Class of 1904	

CATALOG OF STUDENTS

CATALOG OF STUDENTS

Major subjects are indicated as follows: Ag. Agronomy, An. Animal Industry, Bc. Biological Chemistry, Bl. Biology, Ch. Chemistry, Ch. Eng. Chemical Engineering, Ce. Civil Engineering, Dh. Dairy Husbandry, Es. Economics, Ed. Education, Ee. Electrical Engineering, Eh. English, Fy. Forestry, Fr. French, Gm. German, Gk. Greek, Hy. History, He. Home Economics, Ht. Horticulture, Lt. Latin, Ms. Mathematics, Me. Mechanical Engineering, Ph. Poultry Husbandry, Pm. Pharmacy, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Si. Spanish and Italian.

GRADUATE STUDENTS

Adams, James Abraham, B. A., Ps. Maine, 1915	<i>Orono</i>	43 Mill Street
Allen, Lloyd Carroll, A. B., Ch. Bates, 1914	<i>Auburn</i>	105 Oak Hall
Atwater, Donald Vince, B. S., Bl. Maine, 1916	<i>Orono</i>	7 Pleasant Street
Bain, Herbert Soley, A. B., Gm. Wesleyan, 1912	<i>Orono</i>	53 Main Street
Axtell, Paul Henry, A. B., Eh. Colgate, 1916	<i>Orono</i>	13 Pine Street
Bartlett, Emily Mary, B. A., Bl. Maine, 1912	<i>Orono</i>	148 College Street
Brown, Harry Chamberlain, B. S., Ps. Brown, 1913	<i>Orono</i>	61 Bennoch Street
Buncke, Harry Jacob, C. E., Ch. Columbia, 1915	<i>Whitestone, New York, N. Y</i>	
Butters, Arthur Erwin, B. A., Ed. Maine, 1916	<i>Old Town</i>	
Chadbourne, Ava Harriet, B. A., Ed. Maine, 1915	<i>Orono</i>	32 College Street

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Carleton, Edward Frazier, B. A., Fr. Maine, 1912	<i>Parsonsfeld</i>	
Chase, Martha Durgin, B. A., Fr. Boston University, 1906	<i>Portland</i>	
Clarke, George Clarence, B. A., Ms. Maine, 1913	<i>Kent's Hill</i>	
Colvin, Zella Elizabeth, B. A., Ms. Maine, 1916	<i>Williamsburg, Ind.</i>	32 College Street
Fairchild, Thomas Everett, B. S., Bl. Maine, 1916	<i>Livermore Falls</i>	Φ K Σ House
Floyd, Raymond, B. A., Gm. Maine, 1913	<i>Orono</i>	University Inn
Fuller, William David, Ph. B., Ed. Wisconsin, 1910	<i>Old Town</i>	Old Town
Gilday, Walter Henry, A. B., Ed. Harvard, 1914	<i>Old Town</i>	Old Town
Goldsmith, Chester Hamlin, B. S., Ch. Maine, 1915	<i>Orono</i>	32 College Street
Hamlin, James Archie, A. B., Ed. Bowdoin, 1914	<i>Old Town</i>	Old Town
Hutchinson, Robert Orland, A. B., Ps. Indiana, 1914	<i>Orono</i>	61 Bennoch Street
Jack, George Edwin, A. B., Ch. Bates, 1910	<i>Bowdoinham</i>	
Lanpher, Stacy Clifford, B. A., LL.B., Law. Maine, 1908, 1915	<i>Foxcroft</i>	61 Fourth Street, Bangor
Malone, Hannah Frances, A. B., Ed. Bates, 1914	<i>Ellsworth</i>	Orono
Metcalf, Clell Lee, B. A., M. A., Bl. Ohio State, 1911, 1912	<i>Columbus, O.</i>	
Petty, Willis Thurston, B. S., Bl. Maine, 1915	<i>North Dartmouth, Mass.</i>	
Phinney, Chester Squire, B. A., Gm. Maine, 1911	<i>Pawtucket, R. I.</i>	
Rao, Ramanathapur Sitarama, B. Sc., Ch. University of Bombay, 1913	<i>Bangalore, India</i>	Stillwater
Raven, Anton Adolph, Jr. A. B., Eh. Rutgers, 1916	<i>Orono</i>	University Inn
Rich, William Robert, B. S., Ch. Maine, 1916	<i>Gorham</i>	Δ T Δ House

CATALOG OF STUDENTS

Roberts, John Leonard, A. B., Ms. Bowdoin, 1911	<i>Orono</i>	124 Main Street
Sink, Stanley Ben, B. Sc., Bc. Ohio State, 1915	<i>Orono</i>	Forest Avenue
Smith, Harry Woodbury, B. S., Bl. Maine, 1909	<i>Orono</i>	384 College Street
Smith, Oscar Samuel, B. A., Hy. Maine, 1913	<i>Bangor</i>	160 Essex Street, Bangor
Stinson, Parker Burroughs, A. B., Ed. Bates, 1915	<i>Wiscasset</i>	
St. Onge, Arthur Amos, B. A., Ed. Maine, 1914	<i>Foxcroft</i>	
Swasey, Guy Henry, A. B., Ed. Bates, 1914	<i>Lincoln</i>	
Tarbox, James Obadiah, A. B., Ch. Bowdoin, 1914	<i>Newcastle</i>	
Thomas, J Fred, B. S., Bl. Iowa State, 1915	<i>Orono</i>	Forest Avenue
Whitmore, Albert Ames, B. S., Hy. Maine, 1906	<i>Orono</i>	Orono
Wilbur, Oscar Milton, B. S., Bl. Maine, 1915	<i>Orono</i>	Campus
Woods, Roscoe, B. A., M. A., Ms. Georgetown, Maine, 1914, 1916	<i>Orono</i>	29 Main Street

SENIORS

Aikens, Frederick Harlow, Dh.	<i>South Windham</i>	112 H. H. Hall
Ames, Ivan Cecil, Ce.	<i>North Haven</i>	B Θ Π House
Andrews, Harold Pierce, Fy.	<i>Monmouth</i>	210 H. H. Hall
Bayley, Charles William, Dh.	<i>Wells</i>	409 H. H. Hall
Beckler, Warren Bigelow, Ch. Eng.	<i>Auburn</i>	301 Oak Hall
Berger, Samuel Solomon, Ch. Eng.	<i>Lawrence, Mass.</i>	Φ Ε Π House
Bernstein, Louis Abraham, Ce.	<i>Auburn</i>	Φ Ε Π House
Berry, Leroy Nahum, An.	<i>South Bridgton</i>	112 H. H. Hall
Blanchard, Arthur Nile, Dh.	<i>Cumberland Center</i>	Λ Χ Α House
Brackett, Altie Franklin, Ee.	<i>Berwick</i>	Α Τ Ω House
Brasseur, Ralph Baldwin, Ce.	<i>Bradford, Mass.</i>	Φ Κ Σ House
Brawn, Earl Robertson, Ee.	<i>South Portland</i>	Σ Ν House

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Brawn, Worthen Earle, Ch. Eng.	<i>Bath</i>	206 H. H. Hall
Bright, Elizabeth Mason, Bl.	<i>Bangor</i>	Mt. Vernon House
Bristol, Grace Bidwell, He.	<i>West Hartford, Conn.</i>	
		Mt. Vernon House
Brown, Brooks, Dh.	<i>Dover</i>	Δ T Δ House
Brown, Ruth Ellen, Eh.	<i>Brewer</i>	Brewer
Burke, John Andrew Aloysius, Me.	<i>Portland</i>	Δ T Ω House
Callahan, Raymond Murray, An.	<i>Sabattus</i>	Θ X House
Carter, Ray Milo, Ch.	<i>West Hawley, Mass.</i>	
		310 H. H. Hall
Chadbourne, Paul Everett, Me.	<i>Biddeford</i>	Φ K Σ House
Chaplin, Leola Bowie, Eh.	<i>Cornish</i>	Balentine Hall
Clapp, Elwood Irvin, Ch. Eng.	<i>Brewer</i>	Brewer
Cobb, Sumner Chase, Ms.	<i>Woodfords</i>	Φ K Σ House
Collins, Parkman Abbott, Bl.	<i>Readfield Depot</i>	Θ X House
Coombs, Jessie Willett, Ped.	<i>Waldoboro</i>	Balentine Hall
Copp, Lincoln Brackett, Es.	<i>Cornish</i>	Σ N House
Creeden, James Coharn, Ce.	<i>Brooklyn, N. Y.</i>	Θ X House
Crossland, Charles Edward, An.	<i>Lawrence, Mass.</i>	205 H. H. Hall
Crowell, Fred Donald, Es.	<i>Bangor</i>	B Θ Π House
Currier, Harold Newcomb, Ch. Eng.	<i>Brewer</i>	Φ K Σ House
Dempsey, Edmund James, Ch.	<i>Orono</i>	Σ X House
Dodge, Richard Bousby, Ph.	<i>Machias</i>	211 Oak Hall
Dole, George Elmer, Es.	<i>Haverhill, Mass.</i>	Θ X House
Ellis, Alfreda, He.	<i>Belfast</i>	Mt. Vernon House
Emery, Charles Irving, Ms.	<i>Salisbury Cove</i>	Σ N House
Emery, Earle Leslie, An.	<i>Salisbury Cove</i>	Σ N House
Emery, Marion, He.	<i>Limerick</i>	Mt. Vernon House
Falvey, John Michael, Fr.	<i>Orono</i>	Δ T Ω House
Farnham, Walter Elwood, Me.	<i>Orono</i>	54 Forest Avenue
Fickett, Ernest Leslie, Me.	<i>Portland</i>	Θ X House
Fides, Avery Meader, An.	<i>Orr's Island</i>	Φ H K House
Fletcher, Robert Kemble, Bl.	<i>Orono</i>	38 North Main Street
Fraser, Ralph Ervin, Me.	<i>Presque Isle</i>	Φ H K House
Freese, Langdon Jackson, Ms.	<i>Bangor</i>	K Σ House
French, Frank Alexander, Es.	<i>Orono</i>	Θ X House
Gonyer, Frances Louise, Fr.	<i>Orono</i>	Oak Street
Gorham, William Joseph, Es.	<i>Portland</i>	K Σ House
Grant, Benjamin Elwell, Es.	<i>Cumberland Mills</i>	Σ X House
Greene, Daniel Emerson, An.	<i>Brewer</i>	112 H. H. Hall

CATALOG OF STUDENTS

Greenwood, Russell Sanford, An.	<i>Presque Isle</i>	41 Mill Street
Gribbin, Benjamin Herbert, Es.	<i>Portland</i>	Φ H K House
Guiou, Elty Chester, Ce.	<i>Presque Isle</i>	Grove Street
Hamilton, Guy Bradford, Dh.	<i>Portland</i>	Λ X A House
Hanly, Edward Kavanaugh, Fy.	<i>Thomaston</i>	33 Bennoch Street
Hansen, George Edward, Fy.	<i>Worcester, Mass.</i>	412 H. H. Hall
Harrison, Mary Violetta, Gm.	<i>Freeport</i>	Balentine Hall
Haskell, Weston Bradford, Dh.	<i>Auburn</i>	B Θ Π House
Herrick, Carleton Sewall, Es.	<i>South Brewer</i>	K Σ House
Higgins, Dorrice Mae, Fr.	<i>Brewer</i>	Mt. Vernon House
Higgins, Royal Grant, Jr., Ms.	<i>Bar Harbor</i>	Σ N House
Hill, Mark Langdon, Ch.	<i>Bath</i>	B Θ Π House
Hiller, Howard Bryant, Dh.	<i>Marion, Mass.</i>	Σ A E House
Hopkins, Bryant Lealand, Ce.	<i>North Haven</i>	Φ Γ Δ House
Howard, Flora Adelaide, He.	<i>Bangor</i>	
	82 Montgomery Street, Bangor	
Hugh, Yee Tin, Pl.	<i>Canton, China</i>	101 Oak Hall
LL. B., Valparaiso, 1915		
Hunt, Lilian Crosby, Eh.	<i>Old Town</i>	Old Town
Hurd, Everett St. Claire, Ee.	<i>Pittsfield</i>	Φ K Σ House
Hutchinson, Daniel Clair, Ag.	<i>Dover</i>	56 Park Street
Ingraham, Edith Louise, Gm.	<i>Bangor</i>	78 Grant Street, Bangor
Jacobs, Maurice, Bl.	<i>Methuen, Mass.</i>	Φ E Π House
Jenkins, Howard Lawrence, An.	<i>Methuen, Mass.</i>	Φ E Π House
Johnson, Carl Strong, Dh.	<i>Easthampton, Mass.</i>	B Θ Π House
Jones, Frederic Paul, Ee.	<i>Biddeford</i>	301 H. H. Hall
Kilburn, George Washington, Ms.	<i>Fort Fairfield</i>	Σ X House
King, Harold Lewis, Ch.	<i>Orono</i>	Pleasant Street
Kloss, Theodore Edward, Ch. Eng.	<i>Kennebunkport</i>	Φ Γ Δ House
Lane, Hazel Irene, He.	<i>Lewiston</i>	Balentine Hall
Legal, Chapin, Ht.	<i>Calais</i>	Σ N House
Libby, Philip Nason, Fy.	<i>Gray</i>	Σ A E House
Locke, John Fernando, Ch.	<i>Augusta</i>	Σ A E House
Maddocks, Carlton Whaton, Ped.	<i>Nicolin</i>	Park Street
Mank, Nelson Fountain, Me.	<i>Portland</i>	Σ N House
Marble, Gerald Coker, Me.	<i>Skowhegan</i>	K Σ House
March, Ruth Evelyn, He.	<i>Easton</i>	Balentine Hall
Mathews, Wilbur Leonard, Ee.	<i>Berwick</i>	A T Ω House
Mercier, Dorothy, Lt.	<i>Princeton</i>	Balentine Hall
Merrill, Katharine Buffum, Eh.	<i>Orono</i>	178 Main Street

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Moloney, Helen Carew, Eh.	Orono	56 North Main Street
Moody, Charles Leo, Ht.	North Monmouth	Campus
Moulton, Joseph Wendell, Ce.	Rutland, Mass.	304 H. H. Hall
Moulton, Parker Nash, Bl.	Bath	Σ A E House
Mower, Clyde Fletcher, Me.	Dexter	15 Park Street
Mower, Leland Monroe, Ce.	Auburn	202 Oak Hall
Mullen, Charles Emerson, Ch. Eng.	Bangor	39 West Broadway, Bangor
Mulloney, Lawrence Edmund, Me.	Portland	A T Ω House
Murphy, Blanche Laurretta, Ped.	Portland	Balentine Hall
Murray, Mable Thurston, Ped.	Boothbay Harbor	Balentine Hall
McAlister, Royce Delano, Ed.	Bucksport	Σ A E House
McCabe, Francis Thomas, Ee.	Worcester, Mass.	Δ T Δ House
McCabe, George Curtin, Ee.	Kennebunkport	Θ X House
McCobb, Herbert Hodges, Ag.	Lincolnville	Campus
McCusker, Joseph Aloysius, Bl.	Orono	Θ X House
Nash, William Edmund, Ce.	Concord, N. H.	K Σ House
Newton, Maxwell, Ch. Eng.	Kent's Hill	Φ E Π House
Nowell, Foster, Ce.	Reading, Mass.	Δ T Δ House
Noyes, Garth Albert, Ee.	Orono	Forest Avenue
O'Donoghue, William Florance, Fy.	Orono	Δ X A House
Page, Schuyler Colfax, Jr., Ee.	Caribou	Φ H K House
Partridge, Clara Estelle, He.	Pemaquid Beach	Balentine Hall
Pemberton, Harold Sawyer, Ce.	Groveland, Mass.	Δ X A House
Pendleton, Raymond Ambrose, Ms.	Brewer	Campus
Penney, Charles Clifton, An.	Lewiston	Θ X House
Perkins, Edward Adolphus, Ee.	Old Orchard	
		391 Union Street, Bangor
Perry, John Howard, Ch.	Lincoln	Δ T Δ House
Perry, Mildred Geneva, Fr.	Orono	R. F. D. 7, Bangor
Peterson, Henry Andrew, Bl.	Portland	Σ N House
Phelps, Elizabeth Cornelia, Gm.	Foxboro, Mass.	Balentine Hall
Phillips, Stanley Gilkey, Ce.	Westbrook	Φ Γ Δ House
Pierce, Ralph Bartlett, Ch.	Beverly, Mass.	Σ X House
Pierson, Howard Lester, Ch.	Detroit	Park Street
Pitman, Linwood True, Eh.	Augusta	Θ X House
Post, Lawrence Leicester, Ce.	Alfred	31 Mill Street
Preble, Leslie Edward, Ch. Eng.	Saco	7 Pleasant Street
Prentice, William Henry, Me.	Round Pond	302 Oak Hall
Prescott, Glenn Carleton, Es.	Kezar Falls	Φ H K House

CATALOG OF STUDENTS

Remick, Edward Carleton, Ps.	<i>Springvale</i>	K Σ House
Reynolds, William Eugene, Dh.	<i>Northeast Harbor</i>	Δ T Δ House
Rice, Charles Anthony, Es.	<i>Portland</i>	K Σ House
Ricker, Ruth Merrill, He.	<i>Lisbon</i>	Mt. Vernon House
Robinson, Carl Elmo, Dh.	<i>Bangor</i>	408 H. H. Hall
Robinson, George Campbell, Me.	<i>Westbrook</i>	Δ T Δ House
Robinson, Veysey Hiram, Ped.	<i>Bristol</i>	Old Town
Rowley, Levi Thaddeus, Me.	<i>Hartford, Conn.</i>	A T Ω House
Savage, Doris, Gm.	<i>Bangor</i>	35 Maple Street, Bangor
Sawyer, Charles Augustine, Me.	<i>Portland</i>	Θ X House
Sawyer, Ralph Erle, Ec.	<i>Buxton</i>	Σ N House
Scribner, John Leslie, Ag.	<i>Plattsburg, N. Y.</i>	
		33 Bennoch Street
Sherman, Fuller Gustavus, Ch.	<i>Randolph</i>	Δ T Δ House
Sidelinger, Claude Lyndon, Ped.	<i>Washington</i>	3 Middle Street
Simpson, William Andrew, Ht.	<i>Marlboro, Mass.</i>	Σ N House
Smith, Clarence Llewellyn, Me.	<i>Vinalhaven</i>	207 H. H. Hall
Smith, Marshall Odell, Ch. Eng.	<i>Yarmouthville</i>	Θ X House
Stackpole, Miner Reginald, Ce.	<i>Sanford</i>	Σ A E House
Stephens, Frank Owen, Eh.	<i>Auburn</i>	B Θ Π House
Stephenson, Charles Lindsley, Ag.	<i>Orono</i>	Φ H K House
Steward, Raymond Benson, Dh.	<i>Portland</i>	304 Oak Hall
Stoddard, Stanley Waldron, Ee.	<i>Bingham</i>	A T Ω House
Stoehr, Rudolph, Dh.	<i>Sabattus</i>	Park Street
Stoughton, Richard, Ht.	<i>Montague, Mass.</i>	Δ X A House
Sturtevant, Jessie May, Eh.	<i>Milo</i>	11 Main Street
Thomas, Roy Frank, Dh.	<i>Monson</i>	8 Main Street
Travers, Robert James, Ee.	<i>Bangor</i>	68 Jefferson Street, Bangor
Treworgy, Forrest Reuben, Ps.	<i>Ellsworth</i>	Σ N House
Wadlin, George Knowlton, Ee.	<i>East Northport</i>	Δ X A House
Wahlenberg, William Gustavus, Fy.	<i>Thompsonville, Conn.</i>	Δ X A House
Wardwell, Simon Murray, Ch.	<i>Auburn</i>	B Θ Π House
Waterhouse, Russell Vale, An.	<i>Kennebunk</i>	Σ A E House
Watkins, Herbert Everett, Ch.	<i>Woodfords</i>	Δ T Δ House
Waugh, Harvey Cyrus, Me.	<i>Levant</i>	Σ N House
Welch, Donald Stuart, Bl.	<i>Norway</i>	Φ H K House
Wilbur, Elwood Morton, Ce.	<i>Sorrento</i>	3 Middle Street
Wood, Frances Andrews, Fr.	<i>Bar Harbor</i>	Balentine Hall
Wood, Lawrence Blanchard, An.	<i>Kingfield</i>	410 H. H. Hall
Wood, Margaret Allen, Gm.	<i>Bar Harbor</i>	Balentine Hall

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Woodward, George Thomas, Me. *Lisbon Falls* Φ H K House

JUNIORS

Abbott, Voyle Eben, Es.	<i>Albion</i>	Δ T Ω House
Adams, George Joseph, Ps.	<i>Orono</i>	41 Mill Street
Aikins, Walter Bowen, Dh.	<i>South Windham</i>	111 H. H. Hall
Allen, William Henry, Es.	<i>Brownville Junction</i>	B Θ Π House
Amos, Luther Newell, Ee.	<i>Houlton</i>	Grove Street
Annis, Howard LeRoy, Fy.	<i>Lincoln Center</i>	Δ T Ω House
Atherton, Raymon Neale, Ag.	<i>Augusta</i>	407 H. H. Hall
Bailey, George Raymond, Me.	<i>Northampton, Mass.</i>	Δ T Ω House
Barnard, Adriel Fales, Me.	<i>Bucksport</i>	308 Oak Hall
Barrett, Willett Clark, Gm.	<i>Newport, R. I.</i>	Φ Γ Δ House
Benson, Clyde Allen, Ch. Eng.	<i>Lewiston</i>	Θ X House
Beverage, Stanley Fremont, Ch.	<i>North Haven</i>	Σ Δ E House
Bisbee, Frederick Carleton, Ee.	<i>Berlin, N. H.</i>	
	R. F. D. # 7, Bangor	
Blackman, Marie Prince, He.	<i>Peak Island</i>	Mt. Vernon House
Blaisdell, Harvard Wilbur, Es.	<i>North Sullivan</i>	Main Street
Blanchard, Marjorie Madeline, Ped.	<i>Springvale</i>	Balentine Hall
Boothby, Wallace Johnson, Es.	<i>Bangor</i>	312 H. H. Hall
Brackett, Robert Emerson, Ps.	<i>Limington</i>	39 Mill Street
Bransfield, William Henry, Ee.	<i>Willimantic, Conn.</i>	3 Middle Street
Brasier, Everett Hovey, Dh.	<i>Guilford</i>	Φ Γ Δ House
Brittain, Thomas Waldo, Ch.	<i>Island Falls</i>	Σ Δ E House
Brooks, Samuel Stevens, Ed.	<i>Orono</i>	3 Middle Street
Brown, Clifford, Ce.	<i>Portland</i>	Φ Γ Δ House
Bubier, Sylvester Breed, Es.	<i>Amesbury, Mass.</i>	180 Main Street
Caine, Mae Frances, Fr.	<i>Brewer</i>	Brewer
Caldwell, Harold Benjamin, Ce.	<i>Madison</i>	Σ X House
Calhoun, Lewis Tracy, Fy.	<i>Bridgeport, Conn.</i>	K Σ House
Cameron, George Clifton, Me.	<i>Fryeburg</i>	Σ Δ E House
Cannon, Gertrude Frances, Gm.	<i>Brewer</i>	Brewer
Carlson, Thurston Daniel, Ee.	<i>Hopedale, Mass.</i>	Σ Δ E House
Carlton, George Melvin, Ee.	<i>Woolwich</i>	301 H. H. Hall
Carter, George Milton, Ee.	<i>Washburn</i>	301 H. H. Hall
Chadbourne, Preston Berlin, Dh.	<i>Harmony</i>	109 H. H. Hall

CATALOG OF STUDENTS

Chalmers, Ruth Bartlett, Fr.	<i>Bangor</i>	Mt. Vernon House
Chapin, Francis Deering, Me.	<i>Saco</i>	Δ X A House
Chapman, Russell Comstock, Es.	<i>Hartford, Conn.</i>	Φ K Σ House
Cheney, George Henry, Ch. Eng.	<i>Randolph</i>	Φ Γ Δ House
Cole, Raymond Fuller, Es.	<i>Brewer</i>	Δ T Δ House
Coolbroth, Earnest Leon, Ce	<i>Woodfords</i>	Φ Γ Δ House
Cram, Beryl Eliza, Eh.	<i>New Sharon</i>	Balentine Hall
Cram, Ernest Victor, Ce.	<i>Sanford</i>	Φ Γ Δ House
Crawshaw, Thomas Hill, Fy.	<i>Lewiston</i>	Σ N House
Creamer, Walter Joseph, Jr., Ee.	<i>Bangor</i>	24 George Street, Bangor
Crockett, Mark Vernon, Ed.	<i>Gorham, N. H.</i>	Θ X House
Crosby, Ruth, He.	<i>Bangor</i>	32 College Street
Cushing, Benjamin Hilton, Fy.	<i>Portland</i>	Σ X House
Dahlgren, Sigfried Alexander, Dh.	<i>Camden</i>	Δ T Ω House
Davis, Manley Webster, Ch. Eng.	<i>Guilford</i>	Φ Γ Δ House
Davis, Melvin Linwood, Ee.	<i>Sabattus</i>	311 H. H. Hall
DeBeck, Edith Eirena, Ms.	<i>Franklin</i>	Balentine Hall
Dennett, Winburn Albert, Ht.	<i>Hopedale, Mass.</i>	Σ A E House
Derby, Pauline, Gm.	<i>Bangor</i>	366 French Street, Bangor
Dolloff, Philip Warren, Ht.	<i>Standish</i>	312 H. H. Hall
Dow, Kathryn, He.	<i>Searsport</i>	Mt. Vernon House
Drisko, Clarence Holmes, Me.	<i>Columbia Falls</i>	25 Grove Street
Dugan, Frances Joan, Gm.	<i>Bangor</i>	54 Sidney Street, Bangor
Dunham, Stephen Merle, Me.	<i>Lewiston</i>	Θ X House
Edgerly, Lloyd Irving, Ch. Eng.	<i>Swampscott, Mass.</i>	K Σ House
Ellsworth, Harry Arthur, Dh.	<i>Farmington</i>	211 H. H. Hall
Emerson, Raymond LaForest, Fy.	<i>Island Falls</i>	25 Grove Street
Emmons, Everett Ellsworth, Ee.	<i>Portland</i>	207 H. H. Hall
Evans, Weston Sumner, Ce.	<i>South Windham</i>	Δ X A House
Farrar, Helen Wilcox, Eh.	<i>East Corinth</i>	Balentine Hall
Ferguson, Frank Currier, Eh.	<i>New York, N. Y.</i>	K Σ House
Fernald, Abraham Chadwick, Jr.	<i>Mt. Desert</i>	Δ T Δ House
Folsom, Dorothy Louise, Gm.	<i>Norridgewock</i>	Balentine Hall
Frawley, Marie Alice, Si.	<i>Bangor</i>	Balentine Hall
French, Gardner Marble, Es.	<i>Mansfield, Mass.</i>	309 H. H. Hall
Frost, Ermont Getchell, Es.	<i>Springvale</i>	K Σ House
Gammelgaard, Lewis Waldo, Ch. Eng	<i>Attleboro, Mass.</i>	212 H. H. Hall
Gardner, Leigh Philbrook, Ag.	<i>Dennysville</i>	401 H. H. Hall
Gellerson, Vera Elvira, Eh.	<i>Houlton</i>	Mt. Vernon House
Gibbs, Frederick Donald, Ee.	<i>South Portland</i>	Σ N House

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Gibbs, Grace Mabel, Bl.	<i>East Orland</i>	Balentine Hall
Gross, Maurice Clinton, Ed.	<i>Deer Isle</i>	Σ A E House
Hagerty, Jean Mason, Es.	<i>Bangor</i>	201 H. H. Hall
Haines, Frederick Bates, Ce.	<i>Portland</i>	B Θ Π House
Hall, Sumner Augustus, Dh.	<i>Portland</i>	Δ T Δ House
Ham, Wallace Reed, Ee.	<i>Bath</i>	206 H. H. Hall
Harmon, Frank Lorenzo, Ee.	<i>Corinna</i>	Φ H K House
Harper, William Chesley, Ee.	<i>Gardiner</i>	
	246 Main Street, Old Town	
Hawthorne, Robert Henry, Ce.	<i>Brownville</i>	25 Grove Street
Head, Francis, Ce.	<i>Bangor</i>	B Θ Π House
Hill, Roger Benson, Ch.	<i>Peabody, Mass.</i>	Σ N House
Hogan, Louis William, Ee.	<i>Houlton</i>	Grove Street
Hooper, Henry Stimson, Ch.	<i>Orono</i>	38 Pine Street
Hurd, Robert Gerry, Ch.	<i>Bangor</i>	Φ H K House
Hutchins, George Stanley, Me.	<i>Cape Neddick</i>	Σ X House
Jones, Harold Norton, Ee.	<i>Peabody, Mass.</i>	Σ N House
Jortberg, Charles Augustus, Ch. Eng.	<i>Portland</i>	Δ T Ω House
Joy, Armand Elwood, Ed.	<i>West Sullivan</i>	Σ A E House
Katz, Simon, Ch. Eng.	<i>Portsmouth, N. H.</i>	Φ E Π House
Keep, John Marcus, Si.	<i>North Conway, N. H.</i>	
		Δ X A House
Kellogg, Thelma Louise, Eh.	<i>Vanceboro</i>	Balentine Hall
Kennett, Russell Blaisdell, Me.	<i>Madison, N. H.</i>	Σ X House
Kimball, Lester Willis, Es.	<i>Cliftondale, Mass.</i>	180 Main Street
Larrabee, Callie Hamm, Bl.	<i>Frankfort</i>	40 Main Street
Lawrence, Fila Lavina, He.	<i>North Lubec</i>	Mt. Vernon House
Leighton, Mildred Estelle, He.	<i>Orono</i>	College Street
Leighton, Ralph Melvin, Ch.	<i>Bar Harbor</i>	College Street
Lewis, Roscoe Samuel, Hy.	<i>Auburn</i>	Σ N House
Libby, Donald Maxwell, Ee.	<i>Limerick</i>	7 Park Street
Libby, Frank Dexter, Ch. Eng.	<i>Gardiner</i>	Δ T Δ House
Libby, Lucien Taylor, Ch. Eng.	<i>Scarboro</i>	10 Park Street
Lottinville, Marie Anne Leonie, Fr.	<i>Brockton, Mass.</i>	Balentine Hall
Lovejoy, Raymond Harwood, Ht.	<i>New Sharon</i>	25 Grove Street
Lown, Philip William, Ch. Eng.	<i>Bangor</i>	Φ E Π House
Magee, John Henry, Eh.	<i>Bangor</i>	K Σ House
Mason, Alice Eliza, Lt.	<i>Mount Desert</i>	32 College Street
Matheson, Beatrice Louise, He.	<i>Bangor</i>	306 Essex Street, Bangor
May, Edwin Hyland, Ee.	<i>Hartford, Conn.</i>	Φ K Σ House

CATALOG OF STUDENTS

May, Marie Etta, An.
 Merrill, Charles Neal, Ch. Eng.
 Merrill, Marguerite Frances, He.
 Merriman, Lawrence Tilton, Ag.
 Merritt, Raymond Lowell, Ht.
 Mooers, Susie Dyer, He.
 Morse, James Lester, An.
 Moulton, Albert Bigelow, Ee.
 Moulton, Simon Waldo, Es.
 Mullen, Joseph Norman, Ee.
 Murphy, William Robert, Dh.
 McGrath, Joseph William, Ch.
 MacIlroy, Cecil Dow, Es.
 McKown, Richard Edward, Es.
 McLean, Edward Archibald, Ce.
 McNamara, Raymond Leo, Ms.
 McPhee, Hugh Curtis, Ag.
 McWilliams, Mona Beatrice, Gm.
 Newell, George Clifford, Ce.
 Newman, Isaiah Leavitt, Me.
 Niles, Walter Leslie, Es.
 Norton, Donald William, Ch.
 Norton, George Chapman, Ht.
 O'Brien, Arthur Bartholomew, Pm.
 Oliver, George Taylor, Jr., Ht.
 Osgood, Arthur Bradley, Ee.
 Park, Irwin James, Ce.
 Parmenter, Robert Brown, Fy.
 Paul, George Boss, Ch.

Penley, Ferdinand Josiah, An.
 Perkins, Carl Wakefield, Ch.
 Perkins, Carleton Lincoln, Fy.
 Perkins, Myles Standish, Me.
 Perry, Donald Burke, Ee.
 Pinkham, Jessie Marie, He.
 Ramsay, John Parker, Es.
 Ramsdell, Hollis Leroy, Dh.
 Reed, Carrol Coffin, An.
 Reed, Gladys Gage, Gm.

<i>Island Falls</i>	Park Street
<i>Bangor</i>	Φ Γ Δ House
<i>Mechanic Falls</i>	Balentine Hall
<i>Harpswell Center</i>	Δ X A House
<i>Brooks</i>	Φ H K House
<i>New Sharon</i>	Balentine Hall
<i>Bath</i>	Φ Γ Δ House
<i>Worcester, Mass.</i>	304 H. H. Hall
<i>Sebago Lake</i>	B Θ Π House
<i>Bangor</i>	Φ Γ Δ House
<i>Old Town</i>	Old Town
<i>Northhampton, Mass.</i>	A T Ω House
<i>Milo</i>	Θ X House
<i>Southport</i>	Σ X House
<i>Augusta</i>	406 H. H. Hall
<i>Orono</i>	Mill Street
<i>South Paris</i>	209 H. H. Hall
<i>Bangor</i>	Mt. Vernon House
<i>Turner</i>	303 H. H. Hall
<i>East Wilton</i>	411 H. H. Hall
<i>Hallowell</i>	Δ T Δ House
<i>Kingfield</i>	Φ K Σ House
<i>Strong</i>	Grove Street
<i>Portland</i>	Δ X A House
<i>Kennebunk</i>	K Σ House
<i>Bradford</i>	Stillwater
<i>Orono</i>	Main Street
<i>Lincolnville</i>	Σ X House
<i>York Beach</i>	
	372 Hammond Street, Bangor
<i>Auburn</i>	Σ A E House
<i>Ogunquit</i>	201 H. H. Hall
<i>Newburyport, Mass.</i>	88 Main Street
<i>Worcester, Mass.</i>	406 H. H. Hall
<i>Hallowell</i>	Φ H K House
<i>Farmington</i>	Balentine Hall
<i>Woodfords</i>	Φ K Σ House
<i>West Lubec</i>	Campus
<i>Hollis, N. H.</i>	College Street
<i>Bangor</i>	38 Elm Street, Bangor

UNIVERSITY OF MAINE

Rich, Robert, Es.	<i>Berlin, N. H.</i>	K Σ House
Ring, Edgar Raymond, Es.	<i>Orono</i>	Summer Street
Ross, Charlotte Fern, He.	<i>Dexter</i>	Balentine Hall
Rowe, Harland Stimson, Es.	<i>Springvale</i>	B Θ Π House
Ruggles, Gould Bishop, Ee.	<i>Reading, Mass.</i>	Δ X A House
Russell, Alfred Mason, Me.	<i>Rangeley</i>	310 H. H. Hall
Russell, Doris Ethel, Bl.	<i>Orono</i>	124 Main Street
Shaw, Albert Leland, Ch. Eng.	<i>Lewiston</i>	Φ Γ Δ House
Shaw, Reba Cleaves, He.	<i>Orono</i>	56 Park Street
Shea, Thomas Francis, Ce.	<i>Bangor</i>	
	154 Parkview Avenue, Bangor	
Simms, Henry Swain, Ch.	<i>Gorham</i>	Φ Γ Δ House
Sisson, Willard Case, Dh.	<i>Hartford, Conn.</i>	410 H. H. Hall
Small, Clive Ceylon, Ch.	<i>Farmington</i>	Φ K Σ House
Smiley, James Harold, Ce.	<i>Bradford, Mass.</i>	Φ K Σ House
Somers, Roy Merry, Dh.	<i>Portland</i>	Δ T Δ House
Spaulding, Herbert Ansel, Ht.	<i>Buckfield</i>	201 Oak Hall
Speirs, James Everett, Ch.	<i>Portland</i>	Δ T Δ House
Spratt, Aubury Johnson, Me.	<i>Bar Harbor</i>	Σ X House
Springer, Clarence Barrows, Ee.	<i>Portland</i>	Σ N House
Stanley, Watson Frank, Es.	<i>Springvale</i>	B Θ Π House
Storer, Clayton Alton, Dh.	<i>Weld</i>	R. F. D. 7, Bangor
Stott, Gerald Ross, Ch. Eng.	<i>Sangerville</i>	303 H. H. Hall
Stuart, Helen Loggie, Gm.	<i>Bangor</i>	Balentine Hall
Sturtevant, Walter Conrad, Dh.	<i>Milo</i>	11 Main Street
Swift, Harold Clayton, Dh.	<i>Auburn</i>	Σ X House
Thaanum, Joanna Mary, He.	<i>Winthrop</i>	Balentine Hall
Theriault, Dolore Frank, Me.	<i>Millinocket</i>	203 H. H. Hall
Thomas, Marion Louise, He.	<i>Newburyport, Mass.</i>	Balentine Hall
Thompson, Seward Roy, Es.	<i>Standish</i>	209 H. H. Hall
Townsend, Harvard Clark, An.	<i>Newport</i>	308 H. H. Hall
Turner, Dwight Wilson, Dh.	<i>Buckfield</i>	201 Oak Hall
Turner, Ernest Julian, Ch.	<i>Brewer</i>	74 State Street, Brewer
Utecht, Mary Ellen, Ch.	<i>Topsham</i>	Stillwater
Vrooman, Lee, Ht.	<i>Greenville</i>	304 Oak Hall
Watson, Harry Dexter, Me.	<i>West Baldwin</i>	Φ H K House
Waugh, Evelyn Marguerite, Ped.	<i>Winthrop</i>	Balentine Hall
Webster, Fred Lot, Dh.	<i>Farmington</i>	Campus
Wells, Richard Rundlette, Es.	<i>South Bristol</i>	Φ H K House
Wentworth, Ralph Carlton, An.	<i>Denmark</i>	Σ N House

CATALOG OF STUDENTS

Wescott, Merle William, Dh.	<i>Rumford</i>	Σ A E House
White, Harry Lincoln, Fr.	<i>Belfast</i>	K Σ House
Wunderlich, Albert Whittier, Es.	<i>Arlington, Mass.</i>	Σ X House

SOPHOMORES

Adams, Chester Norris, Ee.	<i>Wilton</i>	Φ H K House
Adams, Earle Russell, Es.	<i>Waterville</i>	Φ Γ Δ House
Altman, Frank Isadore, Ms.	<i>Lawrence, Mass.</i>	208 H. H. Hall
Alward, Harry Allen, Ce.	<i>Bangor</i>	65 Fifteenth Street, Bangor
Ames, Helen Frances, Si.	<i>Vinalhaven</i>	Balentine Hall
Anderson, Carl Alfred, Fy.	<i>East Bridgewater, Mass.</i>	104 H. H. Hall
Arnold, Eugene Fairfield, Es.	<i>Foxcroft</i>	27 Park Street
Astle, Ray Milton, Ch. Eng.	<i>Houlton</i>	103 Oak Hall
Averill, Robert Wallace, Ee.	<i>Stillwater</i>	Stillwater
Avery, George Halburton, Ag.	<i>Stockton Springs</i>	202 Oak Hall
Baldwin, Frederick Earl, Ee.	<i>Peabody, Mass.</i>	Σ N House
Barbour, Forrest Atkinson, Ch. Eng.	<i>Woodfords</i>	Σ A E House
Beaulieu, Jennie Christina, Fr.	<i>Old Town</i>	Old Town
Black, Ethel Corinne, Si.	<i>Vinalhaven</i>	Balentine Hall
Blanchard, Daniel Briggs, Ag.	<i>Auburn</i>	311 H. H. Hall
Blethen, Melvin Snow, Ee.	<i>Foxcroft</i>	27 Park Street
Boyd, Earl George, Me.	<i>Kingman</i>	Δ T Δ House
Bradley, Earl Albert, Ed.	<i>Foxcroft</i>	Σ A E House
Bragdon, Stacy Lloyd, Ch.	<i>Gorham</i>	101 H. H. Hall
Brown, Fred Hopkins, Ce.	<i>Bangor</i>	52 Fifth Street, Bangor
Brown, Ralph Lawrence, Bl.	<i>Cedar Grove</i>	55 Park Street
Burnham, Philip Merle, Ce.	<i>Portland</i>	Σ N House
Campbell, Charles Francis, Ce.	<i>Ellsworth</i>	Δ T Δ House
Caswell, Curtis Lowe, Ch. Eng.	<i>Hiram</i>	7 Pleasant Street
Champion, Charles Henry, Ch. Eng.	<i>Adams, Mass.</i>	Δ T Δ House
Chellis, Robert Dunning, Ee.	<i>Portland</i>	Σ X House
Cheney, Joyce Marguerite, Eh.	<i>Bridgeport, Conn.</i>	Mt. Vernon House
Chute, James Lemuel, Ee.	<i>Saco</i>	Δ T Ω House
Clark, Charles Bartlett, Ee.	<i>North New Portland</i>	Φ H K House
Clarke, Ruth Gertrude, Gm.	<i>Machias</i>	Balentine Hall
Coady, Donald Lewis, Ag.	<i>Patten</i>	K Σ House

UNIVERSITY OF MAINE

Cobb, William Bangs, Ag.	<i>Woodfords</i>	Φ K Σ House
Colbath, Kenneth Brenton, Es.	<i>Presque Isle</i>	K Σ House
Collins, Samuel Wilson, Ag.	<i>Caribou</i>	Φ K Σ House
Cook, Raymond John, Es.	<i>Worcester, Mass.</i>	304 H. H. Hall
Cooper, Lawrence Arthur, Ch. Eng.	<i>Auburn</i>	Θ X House
Corey, Charles Truman, Gm.	<i>Portland</i>	Φ H K House
Cornforth, Robert Gardner, Me.	<i>Cooper</i>	103 H. H. Hall
Cosgrove, William Augustine, Ce.	<i>Biddeford</i>	Φ Γ Δ House
Craig, Ira Caswell, Ee.	<i>Millinocket</i>	201 H. H. Hall
Crocker, Percival Bradford, Me.	<i>Foxboro, Mass.</i>	Σ X House
Cross, Hugo Silas, Es.	<i>Guilford</i>	Φ Γ Δ House
Cross, Kendall, Me.	<i>Solon</i>	Φ H K House
Curran, Anne Genevieve, Eh.	<i>Great Works</i>	Great Works
Danforth, Earl Herrick, Ag.	<i>Bangor</i>	20 Seventh Street, Bangor
Darraha, John Clarke Flagg, Ch. Eng.	<i>East Boston, Mass.</i>	Mayo Street
Davis, Jasper Alden Worcester, Ce.	<i>Beverly, Mass.</i>	Park Street
Davis, Thomas, Ag.	<i>Veazie</i>	R. F. D. 7, Bangor
Day, Frank Conant, Ag.	<i>Lewiston</i>	11 Pond Street
DeCoster, Harry Perry, Fy.	<i>Lynn, Mass.</i>	Δ T Δ House
Demerritt, Dwight Burgess, Ch. Eng.	<i>Sangerville</i>	Δ X A House
Denison, Clifford Dawes, Ag.	<i>Harrison</i>	K Σ House
Dennis, Eleanor Bessie, Gm.	<i>Bangor</i>	186 Essex Street, Bangor
Dole, Howard Noyes, Ch. Eng.	<i>Haverhill, Mass.</i>	Θ X House
Dolloff, Ray Winfield, Ag.	<i>Hillside</i>	208 H. H. Hall
Donovan, Frank Edward, Ed.	<i>Turner's Falls, Mass.</i>	Θ X House
Donovan, Irving Raymond, Es.	<i>Bangor</i>	A T Ω House
Dow, Arthur Greenleaf, Ee.	<i>South Paris</i>	104 H. H. Hall
Dow, Maynard Weston, Ag.	<i>Kent's Hill</i>	Σ A E House
Duncan, Cony Alexander, Ch. Eng.	<i>Augusta</i>	180 Main Street
Eastman, Doris Burkett, He.	<i>Warren</i>	Balentine Hall
Edwards, Mary Louise, Gm.	<i>Vineyard Haven, Mass.</i>	College Street
Ellsworth, William Clarence, Ee.	<i>Farmington</i>	211 H. H. Hall
Emerson, Ralph Waldo, Fy.	<i>Island Falls</i>	Grove Street
Emery, Newell Wyman, Ms.	<i>Salisbury Cove</i>	Σ N House
Farnum, Philip Talbot, Ee.	<i>East Wilton</i>	409 H. H. Hall
Farr, Kenneth Randall, Ch. Eng.	<i>Oakland</i>	A T Ω House
Faulkner, George Armand, Fy.	<i>South Hanson, Mass.</i>	K Σ House
Ferren, Earle Leslie, Bl.	<i>East Corinth</i>	210 H. H. Hall
Files, Charles Harper, Ch. Eng.	<i>Portland</i>	Φ K Σ House

CATALOG OF STUDENTS

Foss, Charles Earl, Me.	<i>Woodfords</i>	7 Pleasant Street
French, Marian Elizabeth, Si.	<i>Fort Fairfield</i>	Balentine Hall
Froberger, George Auguste Joseph, Ch. Eng.	<i>Augusta</i>	Σ A E House
Frye, Francis Smith, Ag.	<i>Camden</i>	56 Park Street
Fuller, Oliver Addison, Me.	<i>Mexico</i>	Σ X House
Furey, John Glynn, Es.	<i>Bangor</i>	Θ X House
Garland, Ernest Leonard, Ee.	<i>Old Town</i>	Old Town
Gaskill, David Mijamin, Fy.	<i>Blackstone, Mass.</i>	Δ X A House
Giles, Cornelius Francis, Me.	<i>Peabody, Mass.</i>	Σ N House
Goggin, Francis James, Es.	<i>Orono</i>	21 Main Street
Gooch, Marjorie Eunice, He.	<i>Taunton, Mass.</i>	Balentine Hall
Goodwin, Charles Gile, Es.	<i>Springvale</i>	102 H. H. Hall
Goodwin, John Elmer, Ch.	<i>St. Albans</i>	Φ Γ Δ House
Googins, Richard Lucien, Me.	<i>Biddeford</i>	403 H. H. Hall
Gorden, Walter Lincoln, Me.	<i>Livermore Falls</i>	102 H. H. Hall
Gordon, Samuel Frederick, Ch.	<i>Lincoln</i>	Φ E Π House
Gould, Clifford Perkins, Ee.	<i>Kennebunkport</i>	Φ Γ Δ House
Greene, John Cornelius, Ag.	<i>Peabody, Mass.</i>	Δ T Δ House
Haley, Blanche Lillian, He.	<i>South Brewer</i>	Mt. Vernon House
Hall, Ella May, He.	<i>Brewer</i>	Mt. Vernon House
Hall, Elliot Edgar, Fy.	<i>Vinalhaven</i>	401 H. H. Hall
Hansen, Milton Christopher, Me.	<i>Vernon, Conn.</i>	Park Street
Hanson, Ivan Stevens, Me.	<i>Winter Harbor</i>	80 North Main Street
Hardy, Carl Edward, Ag.	<i>Bangor</i>	124 Parkview Avenue, Bangor
Harmon, Perley Francis, Ag.	<i>Caribou</i>	404 H. H. Hall
Harriman, Stanley, Ch.	<i>Gardiner</i>	211 Oak Hall
Harrington, Randall Alfred, Me.	<i>South Bristol</i>	Φ H K House
Harris, Joseph Freeman, Ag.	<i>Patten</i>	K Σ House
Harris, Leon Carlton, Ch.	<i>Portland</i>	Δ X A House
Harthorn, Marion Louise, Fr.	<i>Milford</i>	Balentine Hall
Haskell, Clara Louise, Lt.	<i>Steuben</i>	Balentine Hall
Haskins, Elwina Lewis, He.	<i>Saco</i>	Balentine Hall
Haynes, Charles Albert, Fy.	<i>Ellsworth</i>	Σ X House
Hitchings, Kathryn Estelle, Si.	<i>Caribou</i>	Balentine Hall
Hoagland, Webster Conley, Ch.	<i>Concord Junction, Mass.</i>	Δ X A House

UNIVERSITY OF MAINE

Hobbs, Vernon French, Ce.	<i>Mattawamkeag</i>	404 H. H. Hall
Hodgkins, Earl Asmond, Ce.	<i>Jefferson</i>	Δ X A House
Holden, Clyde Thaddeus, Ee.	<i>Sabattus</i>	305 Oak Hall
Holt, Stanley Norris, Ce.	<i>Dorchester, Mass.</i>	Δ X A House
Hopkins, Adele Cecilia, He.	<i>Old Town</i>	Old Town
Hopkins, Ray Clifford, Ee.	<i>Camden</i>	401 H. H. Hall
Howard, Joel Hayden, Ag.	<i>Lewiston</i>	Δ T Δ House
Hudson, Myron Terry, Ag.	<i>Winthrop</i>	Mill Street
Hughey, John Millard, Ch. Eng.	<i>Long Island</i>	5½ Peters Street
Hurley, Alice Mary, Fr.	<i>Frankfort</i>	Old Town
Hussey, Leroy Fogg, Es.	<i>Augusta</i>	Σ A E House
Hussey, Wayne Blethen, Ag.	<i>Dark Harbor</i>	Φ K Σ House
Johonnett, Helen Rowe, Hy.	<i>Hampden Highlands</i>	
	<i>Hampden Highlands</i>	
Jones, Samuel Everett, Ee.	<i>Augusta</i>	Δ T Ω House
Jordan, Ruth, Fr.	<i>Old Town</i>	Old Town
Judkins, Eshburn Oscar, Me.	<i>Upton</i>	112 Oak Hall
Kelley, Edward Henry, Me.	<i>Bangor</i>	52 Essex Street, Bangor
Kendall, Ralph Miles, Ee.	<i>Biddeford</i>	Σ A E House
King, Earl Christopher, Es.	<i>Orono</i>	23 Broadway
Kirk, Edward Benedict, Es.	<i>Bar Harbor</i>	Σ N House
Knowlton, Norman Perley, Es.	<i>Orono</i>	Grove Street
Larrabee, Clifford Prentiss, Ch. Eng.	<i>Old Town</i>	Old Town
Lawler, Mark Robinson, Ce.	<i>Southwest Harbor</i>	404 Oak Hall
Lawrence, Arthur Neal, Ee.	<i>North Lubec</i>	Δ T Δ House
Lawry, Emerson Chase, Ch. Eng.	<i>Fairfield</i>	B Θ II House
Lewis, Carl Arthur Randall, Ag.	<i>Augusta</i>	Σ A E House
Libby, Bernard Augustus, Ee.	<i>Limerick</i>	Pine Street
Lloyd, Katherine Marie, Eh.	<i>Brewer</i>	Brewer
Lord, Frank Wadleigh, Ag.	<i>Kezar Falls</i>	K Σ House
Lowell, Arthur Wilbur, Ch. Eng.	<i>Portland</i>	K Σ House
Luce, Ralph Trueman, Me.	<i>Farmington</i>	211 H. H. Hall
Lurvey, Preston Eugene, Ch.	<i>Island Falls</i>	Grove Street
Macquarrie, Kenneth Godfrey, Jr., Ch.	<i>Portland</i>	Δ T Δ House
Mahoney, John Clinton, Ch. Eng.	<i>Biddeford</i>	403 H. H. Hall
Marsh, Bernard Church, Fy.	<i>Dexter</i>	Δ X A House
Martin, Willis Gilman, Bl.	<i>Woodfords</i>	Φ Γ Δ House
Melcher, Edmund Capron, Ag.	<i>Cumberland Mills</i>	Σ X House
Merrow, Lawrence Earle, Ee.	<i>Saco</i>	A T Ω House

CATALOG OF STUDENTS

Mitchell, Arthur Raymond, Ag.
 Mitchell, Myron Atwood, Ee.
 Mooney, Lawrence Henry, Hy.
 Mooney, Richard Henry, Hy.
 Moore, Millard George, Ch. Eng.
 MacDonald, Maxwell Eugene, Bl.
 MacDonnell, Reginald Hugh, Ch.
 Niles, Charles Fernald, Ce.
 Norcross, Evans Barkley, Es.
 Northrup, Christine Adelia, Lt.
 Noyes, Kenneth Bradford, Me.
 Ohnemus, Clifford Andrews, Me.
 Owen, Robert Roak, Ee.
 Parsons, Earle Odber, Ee.
 Peckham, Earle Stuart, Ag.

Perry, Benjamin Cowl, Jr., Ms.
 Pierce, Harold Merle, Es.
 Piper, Dorothy Eva, Gm.
 Pitts, Samuel Lee, Fy.
 Plummer, Norman Dyer, Ce.
 Polakewich, Abraham, Ee.
 Poor, Charles Montgomery, Ce.
 Pratt, Fanny Louise, He.

Prince, Jessie May, Eh.
 Pulsifer, James Hayes, Ag.
 Ranger, Ralph Augustine, Me.
 Rapp, Herbert Victor, Ch.
 Ring, Arthur Andrew, Me.
 Robbins, Hamlyn Nelson, Ag.
 Rowe, Allen Bedford, Ag.
 Rumill, George Edwin, Ce.
 Russell, George Frederick, Ag.
 Ryan, Stephen Joseph, Me.
 Sawyer, Ethel Beatrice, Fr.
 Scott, Edith May, Gm.
 Scott, Ethel Lue, Gm.
 Sears, Albert Johnson, Ce.
 Segal, Abraham, Bl.

Sabattus 110 Oak Hall
South Berwick Θ X House
Berlin, N. H. R. F. D. 7, Bangor
Worcester, Mass. College Street
Old Town Old Town
Bangor, 257 State Street, Bangor
Ayer, Mass 88 Main Street
Rumford 312 Oak Hall
Portland Φ Γ Δ House
Orono 61 Bennoch Street
Orono Forest Avenue
Waltham, Mass. K Σ House
Auburn Φ H K House
Patten 84 Park Street
Bangor

22 Summit Avenue, Bangor
Rockland Φ Γ Δ House
Norridgewock Φ H K House
Fairfield Balentine Hall
Harrison Σ N House
Dorchester, Mass. 301 H. H. Hall
Biddeford Φ E Π House
Andover 402 H. H. Hall
North New Portland

Balentine Hall
Yarmouth Mt. Vernon House
Auburn 412 H. H. Hall
Dryden Σ N House
Turners Falls, Mass. Δ X A House
Orono 3 Summer Street
Scarboro Σ X House
Portland Φ H K House
Mount Desert 81 Mill Street
Methuen, Mass. 7 Pleasant Street
Ayer, Mass. 249 Main Street
South Portland Balentine Hall
Wolfeboro, N. H. Balentine Hall
Wolfeboro, N. H. Balentine Hall
Woodfords Σ A E House
Lewiston 13 Pond Street

UNIVERSITY OF MAINE

Shaw, Burton Alfred, Ag.	Sanford	309 Oak Hall
Sherman, Elmo Linwood, Eh.	Brewer	Brewer
Sinnett, Ralph Vernon, Ch.	Brewer	Brewer
Smallidge, Orman Samuel, Me.	Northeast Harbor	Grove Street
Smiley, Floyd Franklin, Ag.	Caribou	Φ K Σ House
Smiley, Samuel Raymond, Ag.	Waterville	212 H. H. Hall
Smith, Fay, Gm.	Machias	Mt. Vernon House
Smith, Raymond James, Me.	South Brewer	Θ X House
Spear, Estelle Paulina, Ag.	South Portland	Balentine Hall
Steadman, Donald Melville, Hy.	Bridgton	Stillwater
Stephenson, Clarence Baker, Ch.	Portland	B Θ Π House
Stoddard, Edgar Addington, Ch.	Portland	102 H. H. Hall
Strout, Harold Kimball, Ee.	Portland	404 H. H. Hall
Stubbs, Marian Esther, He.	Bucksport	Mt. Vernon House
Sturgis, Alfred Chamberlain, Ag.	Auburn	Σ N House
Swan, William Francis, Ch. Eng.	Berlin, N. H.	Main Street
Sweatt, Cecil Clayton, Es.	Andover	Φ H K House
Swicker, Lester Clayton, Ee.	Townsend, Mass.	201 H. H. Hall
Taylor, Enid Dorothy, Hy.	North Sullivan	Balentine Hall
Taylor, William Henry, Es.	Rumford	312 Oak Hall
Thomas, Albert Hale, Es.	Lincoln	Φ K Σ House
Tibbetts, Louis Elmore, Ag.	Lyman	10 Park Street
Tierney, Arthur Joseph, Me.	Westfield, Mass.	Σ A E House
Tozier, Alton Warren, Me.	Litchfield	112 Oak Hall
Tracy, Frank Alton, Ee.	Cherryfield	27 Park Street
Trask, Newell Jefferson, Ag.	South Jefferson	Park Street
True, Nathan Frank, Ch.	Freeport	202 H. H. Hall
True, Norman Evans, Ee.	Woodfords	Λ X A House
Tupper, Ernest Grant, Ag.	Princeton	Forest Avenue
Turgeon, Henry Wallace, Ch.	Auburn	B Θ Π House
Upham, Warren Pratt, Fy.	Pasadena, Cal.	29 Pond Street
Vaughan, Natalie Alice, Ms.	Orono	Park Street
Wade, Elmer Joseph, Ee.	Richmond	College Street
Wallingford, Vernon Howard, Ch. Eng.	Auburn	Φ H K House
Webber, Paul Franklin, Ag.	Kennebunk	408 H. H. Hall
Weeks, Donald Ross, Ag.	Rockland	Park Street
Weisman, Samuel, Ch. Eng.	Portland	Φ E Π House
Wellington, Linwood Wiley, Ch.	Caribou	Φ K Σ House
Wheeler, Ella Adams, Eh.	Bangor	Mt. Vernon House

CATALOG OF STUDENTS

Whitehouse, Ralph Murch, Ag.	<i>Fort Fairfield</i>	Σ X House
Whitehouse, Thurlle Stevens, Ee.	<i>Portland</i>	Σ N House
Wight, Willard, Es.	<i>Berlin, N. H.</i>	305 H. H. Hall
Wilkins, Ralph Allen, Ch. Eng.	<i>Beverly, Mass.</i>	A T Ω House
Williams, Randall Vaughan, Ag.	<i>Lisbon Falls</i>	107 Oak Hall
Winslow, Willis Stone, Ce.	<i>Waldoboro</i>	210 H. H. Hall
Wood, Ralph Harold, Ee.	<i>Togus</i>	K Σ House
Wooster, Kenneth Thorndike, Es.	<i>Rockport</i>	Σ X House
Yeaton, Russell Powers, Fy.	<i>Belgrade</i>	202 H. H. Hall
Young, Kenneth Thwing, Bl.	<i>Arlington, Mass.</i>	Σ X House
Ziegler, Charles Melvin, Ag.	<i>South Boston, Mass.</i>	B Θ Π House

FRESHMEN

Abramson, Lewis, Arts.	<i>Portland</i>	Φ E Π House
Adams, James Campbell, Ee.	<i>Cherryfield</i>	Σ A E House
Allen, Lyman Edgar, Ch. Eng.	<i>Portland</i>	106 Oak Hall
Alley, Frank Oren, An.	<i>Bar Harbor</i>	Σ X House
Anderson, William Henry, Ee.	<i>Bangor 122 Lincoln Street, Bangor</i>	
Atkinson, Horace Barker, Me.	<i>Morrill</i>	20 Grove Street
Atwood, Gilbert Humphrey, Ce.	<i>Taunton, Mass.</i>	15 Park Street
Atwood, Lewis Gerald, Ee.	<i>Eastport</i>	Σ N House
Averill, Walter Boardman, Ch. Eng.	<i>Stillwater</i>	Stillwater
Avery, Willard Crissey, Eng.	<i>Stamford, Conn.</i>	Φ K Σ House
Bach, Alma Gertrude, He.	<i>Orono</i>	Penobscot Street
Bagley, Harold Herbert, Ag.	<i>Presque Isle</i>	36 Grove Street
Bannister, Leslie, Ce.	<i>Cornish</i>	111 Ook Hall
Barbeau, Joseph Wilfrid, Me.	<i>Anson</i>	105 Main Street
Barber, Roscoe Hall, Ee.	<i>Portland</i>	Θ X House
Barker, Iva Viola, He.	<i>Auburn</i>	Old Town
Barney, George Curtis, Ee.	<i>Berlin, N. H.</i>	R. F. D. 7, Bangor
Barron, John Stekley, Fy.	<i>Saco</i>	A T Ω House
Bartlett, Frances Dorothea, He.	<i>Orono</i>	College Street
Barton, Lawrence Price, Ag.	<i>Waterville</i>	College Street
Beal, Ivan Everett, Ag.	<i>Jonesport</i>	15 Park Street
Beale, Clara Helen, He.	<i>Orono</i>	33 Peters Street
Beck, Joseph Thomas, Arts	<i>Augusta</i>	Δ T Δ House
Berg, Werner Henry Carl, Ch.	<i>New Britain, Conn.</i>	23 Park Street
Berliawsky, Frank Nathan, Arts.	<i>Waterville</i>	110 H. H. Hall
Berman, Harry, Arts	<i>Lewiston</i>	Φ E Π House

UNIVERSITY OF MAINE

Besse, Frank Arnold, Arts	<i>Albion</i>	A T Ω House
Bisbee, Mildred Tressa Wheaton, Arts	<i>Berlin, N. H.</i>	Mt. Vernon House
Black, Howard Preston, Eng.	<i>Bangor</i>	312 H. H. Hall
Blanchard, Esther Mildred, Arts	<i>Springvale</i>	Balentine Hall
Bonfilio, Louis John, Ch. Eng.	<i>Portland</i>	110 H. H. Hall
Borjesson, Thomas Whitmore, An.	<i>Richmond</i>	2 Forest Avenue
Boynton, Ray Maurice, Ce.	<i>Skowhegan</i>	203 H. H. Hall
Brackett, Virginia Mae, He.	<i>Milo</i>	Balentine Hall
Brown, Edward Herbert, Ag.	<i>Bethel</i>	Grove Street
Brown, Harry Carpenter, Ag.	<i>Bethel</i>	Old Town
Brown, Richard Amos, Ee.	<i>Dixfield</i>	80 Mill Street
Bruce, Harold Lincoln, Ag.	<i>Lebanon</i>	College Street
Bryant, Clarence Philip, Me.	<i>Lincoln</i>	Φ Γ Δ House
Budway, Lillian Lucy, Arts	<i>Orono</i>	56 Middle Street
Burden, Marjorie Helen, Arts	<i>Orono</i>	54 Hill Street
Burke, Walter Edward, Arts	<i>Portland</i>	A T Ω House
Bussell, Dorothea Mabel, Arts	<i>Old Town</i>	Old Town
Bussell, Stephen Reginald, Arts	<i>Old Town</i>	Old Town
Butler, Harry, Ch.	<i>Bangor</i>	Φ Γ Δ House
Butler, Henry Russ, Ee.	<i>Portland</i>	201 H. H. Hall
Campbell, Donald Edward, Ag.	<i>Island Falls</i>	25 Grove Street
Carter, Horace Leighton, Arts	<i>Bar Harbor</i>	10 Park Street
Casey, Roy Leon, Ag.	<i>East Dixfield</i>	411 H. H. Hall
Cates, Lewis Goodwin, Ce.	<i>Munroe</i>	Mill Street
Chadbourne, Walter Whitmore, Arts	<i>Danforth</i>	14 Bennoch Street
Chandler, Florence Libby, Arts	<i>Newcastle</i>	Balentine Hall
Chaplin, Raymond Washington, Ag.	<i>Cornish</i>	Φ Η Κ House
Charles, William Harry, Ce.	<i>Portland</i>	55 Park Street
Chase, Olive, Arts	<i>Bluehill</i>	Balentine Hall
Christianson, Elmer Emmons Ag.	<i>Portland</i>	A T Ω House
Churchill, Warren Stanley, Arts	<i>Waterville</i>	Pond Street
Clair, Vera Alice, Arts	<i>Shelburne Falls, Mass.</i>	
		Mt. Vernon House
Clark, Donald Shackley, Ch.	<i>Milford</i>	Milford
Clarke, Eleanor Laura, Arts	<i>Pemaquid</i>	Balentine Hall
Clifford, Charles Fenton, Ce.	<i>Millinocket</i>	
		56 Summer Street, Bangor
Connors, Irene White, Arts	<i>Sullivan</i>	College Street
Cony, Roland Francis, Arts	<i>Augusta</i>	111 H. H. Hall
Copeland, Hazel Yates, Arts	<i>Brewer</i>	Mt. Vernon House

CATALOG OF STUDENTS

Coughlin, Mary Anna, Arts
 Couri, Arthur Najeeb, Ch.
 Couri, Dewey William, Arts
 Courtney, Horace Sears, Ch.
 Cousins, Herbert Burnham, Me.
 Crane, George Wilson, Ce.
 Crosby, Harold Dunmore, Arts
 Cross, Charlotte Geneva, Arts
 Croteau, Antonio Livi, Me.
 Crowley, Frances, Arts

 Croxford, Geneva, Arts
 Currier, Stanley Morison, Ch. Eng.
 Cushman, George Mason, Ce.
 Cushman, Robert Neal, Ag.
 Cuskley, Dorothy Thomas, Arts
 Davidson, James Howard, Ce.
 Davis, Howard Forest, Me.
 Davis, John Joseph, Ag.
 Davis, Max Donald, Arts
 DeCourcy, Paul, Ch.
 Deering, Lawrence Ezekiel, Ee.
 Dempsey, Plinn Duttruss, Ch.
 Diehl, Edwayne Philip, Arts
 Dodge, Maynard Burnham, Ag.
 Dow, William Reed, Ee.
 Drew, Vinal Eugene, Arts
 Duncan, Kenneth James, Ee.
 Dunn, Barbara, Arts
 Dunton, John Albert, Fy.
 Dyer, Isabel Hayden, Arts
 Eaton, Frank Newell, Jr., Ag.
 Edgerly, Glenn Eldred, Ce.
 Eldridge, John Seward, Ag.
 Elliott, Priscilla Goldthwaite, Arts
 Enander, Fred Conrad, Arts
 Epstein, Anna Pauline, Arts
 Fabian, Marvel, He.
 Farnsworth, Kenneth Clyde, Arts
 Farrar, Clarissa Palmer, Arts

Rockland Balentine Hall
Portland Δ T Δ House
Portland Δ T Δ House
Boston, Mass. 212 H. H. Hall
Brewer Φ Γ Δ House
Foxcroft Σ N House
Wollaston, Mass. 205 H. H. Hall
Rockland Balentine Hall
Phillips College Street
Bangor
 15 Forest Avenue, Bangor
Brewer Brewer
Brewer Φ K Σ House
Portland Φ H K House
Kenduskeag Θ X House
Portland Balentine Hall
Guilford Φ Γ Δ House
Rumford 80 Mill Street
Veazie R. F. D. 7, Bangor
Portland Φ E Π House
Bucksport R. F. D. 8, Bangor
Hollis Center 108 Oak Hall
Mattapan, Mass. Σ X House
New Britain, Conn. Park Street
Old Town Old Town
Bangor 15 Dean Street, Bangor
Ashland 304 H. H. Hall
Washburn 411 H. H. Hall
Orono 51 Bennoch Street
Skowhegan 411 Oak Hall
Cape Elizabeth Balentine Hall
Winterport Peters Street
Unity Φ Γ Δ House
Kennebunkport Δ T Ω House
Guilford Mt. Vernon House
Willimantic, Conn. 23 Park Street
Bangor 303 Essex Street, Bangor
Milo Balentine Hall
Islesford 206 Oak Hall
Princeton Balentine Hall

UNIVERSITY OF MAINE

Faulkingham, Bertram Nash, Ee.
 Field, Kenneth Jackman, Ag.
 Fitzgerald, Paul Andrew, Arts
 Flavell, Paul Irving, Ce.
 Fogg, Merle Leslie, Arts
 Fossett, Edward Carroll, Ag.
 Foyle, Raymond Henry, Ch. Eng.

Frawley, Alfred Cecil, Eng.
 Freeland, James Horatio, Arts
 Freeman, Arthur Clyde, Jr., Ch.
 French, Arthur Herbert, Ch. Eng.
 French, Dwight Millard, Eng.
 French, Minerva Evelyn, Arts
 Friend, Francis Howard, Fy.
 Frost, Howard Robinson, Ch.
 Gantnier, Jerome Benedict, Ag.
 Gardiner, Henry Mygatt, Fy.
 Garman, Ellen Mary, He.
 Gaudreau, Armand Theophane, Ee.
 Getchell, Angela Elizabeth, He.
 Giberson, Claude Trafton, Arts
 Gilman, Leona Mae, He.
 Ginsberg, George Snow, Ee.
 Glidden, Carl Maddocks, Ce.
 Glover, Stanton, Ch.
 Godfrey, Ralph Hugh, Ag.
 Goding, Ray Irving, Eng.
 Goodwin, Bernard Valmon, Me.
 Goodwin, Jason Lancelot, Ag.
 Gorden, Kathryn Elizabeth, Arts
 Gray, Harland Alexander, Ee.
 Gribbin, Vinton Earle, Ch. Eng.
 Guptill, Samuel, Arts
 Hacker, Edward Prince, Eng.
 Hackett, Ruby Marie, He.
 Hall, Edward Coleman, Me.

Hall, Harold Gilmore, Eng.
 Ham, Miles Frank, Eng.

West Jonesport Δ X A House
Guilford 401 H. H. Hall
Bath 23 Park Street
Hanover, Mass. Σ N House
West Enfield Main Street
Bristol Box 182, Orono
East Bridgewater, Mass.

104 H. H. Hall
Bangor 84 Ohio Street, Bangor
Bangor B Θ Π House
Providence, R. I. Σ X House
Brewer Brewer
North Anson 307 H. H. Hall
Rumford Balentine Hall
Skowhegan K Σ House
South Lewiston 204 Oak Hall
Benedicta 84 Park Street
Stonington, Conn. Δ X A House
Bangor Balentine Hall
Lewiston Park Street
Orono Mill Street
Groveton, N. H. 309 H. H. Hall
Woodfords Balentine Hall
Bangor 177 Essex Street, Bangor
Waldoboro 203 H. H. Hall
Rockland Σ X House
Litchfield 407 Oak Hall
Presque Isle North Main Street
Fort Edward, N. Y. 107 Oak Hall
East Corinth Peters Street
Livermore Falls Balentine Hall
Old Town Old Town
Portland B Θ Π House
Topsham Pond Street
Brunswick Φ H K House
New Vineyard Mt. Vernon House
Great Chebeague Island

29 Pond Street
Rockland Φ H K House
Augusta Φ K Σ House

CATALOG OF STUDENTS

Hamm, Clifton Marshall, Arts
Harkness, Vinton Orris, Me.
Harmon, Max Carlton, Arts
Harper, Herbert Leon, Arts
Harriman, Alonzo Jesse, Ee,
Harriman, Philip Ainslee, Ce.
Harvey, Ruth Josephine, Arts
Hersom, Arthur Syphus, Arts
Higgins, Raymond Dyer, Ch. Eng.
Hitchings, Herbert William, Arts
Hodgdon, Paul Edward, Ch. Eng.
Hodgkins, Harold Winslow, Me.
Hodgkins, Lawrence James, Me.
Holbrook, Dorothy York, He.
Holden, Edward Wight, Ag.
Hotham, Charles Ernest, Ag.
Howard, Frank Weston, Ee.
Howard, Henry Young, Ee.
Howe, Olga Lilla, Arts
Howell, Richard Henry, Ce.
Hughes, Joseph Francis, Me.
Hunter, Ruth Christobel, He.
Hunton, Oramell Elwood, Ee.
Hutchinson, Lawrence A, Me.
Ingersoll, Dorothy Ruth, Arts
Ingraham, Dwight Marden, Ee.
Jackson, Irene Chase, He.
Jackson, LeRoy Sidney, Fy.
Jackson, Mary Eleanor, He.
Jennys, Blanche Ellen, He.
Johnson, Albert Edwin, Ce.
Johnson, Carl Selwin, Arts
Johnson, Helen Lindsay, He.
Johnson, Lorin Baker, Arts.
Johnson, Pearl Ernest, Ag.
Johnson, Winnifred Viola, Arts
Jones, Bryant Emerson, Fy.
Jones, Eliphalet Prentiss, Arts
Jones, Fred Richard, Arts
Jones, Sylvia Eames, He.

<i>Monroe</i>	R. F. D. 7, Bangor
<i>Lincolnville</i>	Σ A E House
<i>Buxton</i>	402 Oak Hall
<i>Calais</i>	180 Main Street
<i>Bath</i>	111 H. H. Hall
<i>Westport</i>	36 Grove Street
<i>Orono</i>	Mt. Vernon House
<i>Blaine</i>	38 North Main Street
<i>Dennysville</i>	84 Park Street
<i>Caribou</i>	B Θ Π House
<i>Cliftondale, Mass.</i>	Σ X House
<i>Bar Harbor</i>	Σ N House
<i>West Harpswell</i>	404 H. H. Hall
<i>Rockland</i>	Balentine Hall
<i>Melrose, Mass.</i>	Φ K Σ House
<i>Patten</i>	K Σ House
<i>Dexter</i>	36 Grove Street
<i>Winslow</i>	K Σ House
<i>Ashland</i>	Balentine Hall
<i>Portland</i>	Σ X House
<i>Winterport</i>	Peters Street
<i>Rockland</i>	Balentine Hall
<i>Portland</i>	Φ H K House
<i>Caribou</i>	Φ K Σ House
<i>Orono</i>	Balentine Hall
<i>Bangor</i>	78 Grant Street, Bangor
<i>Waterville</i>	Balentine Hall
<i>South Thomaston</i>	Peters Street
<i>Everett, Mass.</i>	Balentine Hall
<i>Belfast</i>	Balentine Hall
<i>New Britain, Conn.</i>	Park Street
<i>Portland</i>	B Θ Π House
<i>Brownville</i>	Balentine Hall
<i>Fitchburg, Mass.</i>	Σ X House
<i>New Gloucester</i>	Pine Street
<i>Appleton</i>	Mt. Vernon House
<i>Bangor</i>	312 H. H. Hall
<i>East Boothbay</i>	Φ H K House
<i>Stratton</i>	403 Oak Hall
<i>Bangor</i>	Mt. Vernon House

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Jordan, Fred Thompson, Arts	<i>Farmington</i>	Σ A E House
Jordan, George Hart, Arts	<i>Portland</i>	B Θ Π House
Judkins, Lacy Winslow, Ch. Eng.	<i>Dixfield</i>	80 Mill Street
Kennison, Edward Earle, Fy.	<i>North New Portland</i>	Φ H K House
Kenniston, Luther Edward, Arts	<i>Amherst</i>	77 Mill Street
Kewer, Howard Vincent, Ch. Eng.	<i>Waverly, Mass.</i>	K Σ House
King, Corinne Mary, Arts	<i>Orono</i>	Pleasant Street
King, Milton Everett, Ee.	<i>South Brewer</i>	South Brewer
King, Rufus Brooks, Ee.	<i>Peabody, Mass.</i>	7 Park Street
Kneeland, Edwin Leroy, Arts	<i>Princeton</i>	412 H. H. Hall
Kneeland, Omer Archibald, Ch. Eng.	<i>Princeton</i>	412 H. H. Hall
Krinsky, Silas Jack, Arts	<i>Ogunquit</i>	Φ E Π House
Lambert, Donald Greene, Ch. Eng.	<i>Readfield Depot</i>	Θ X House
Landers, Carleton Ames, Ag.	<i>Easton</i>	R. F. D. 7, Bangor
Lappin, John Joseph, Ch. Eng.	<i>Portland</i>	B Θ Π House
Laughlin, Donald Stuart, Me.	<i>Portland</i>	Σ X House
Leary, Philip John, Ce.	<i>East Lynn, Mass.</i>	2 Forest Avenue
LeGrow, Carl Augustus, Ag.	<i>Portland</i>	303 Oak Hall
Lehr, Arthur Levi, Ag.	<i>Hallowell</i>	408 Oak Hall
Libby, Lawrence Packard, Ag.	<i>Portland</i>	B Θ Π House
Libby, Philip Allen, Ce.	<i>Gorham</i>	Σ N House
Libby, Richard Melville, Ag.	<i>South Portland</i>	309 Oak Hall
Lingley, Alfred Beverly, Ch. Eng.	<i>Portland</i>	Σ X House
Littlefield, Doris, Arts	<i>Stratham, N. H.</i>	Balentine Hall
Loftus, Victor Harold, Fy.	<i>Lawrence, Mass.</i>	55 Park Street
Lovely, Elmer Raymond, Ag.	<i>Presque Isle</i>	Box 214, Orono
Lucas, John Wilbur, Arts	<i>Portland</i>	Θ X House
Manchester, John Heath, Ee.	<i>Northeast Harbor</i>	311 Oak Hall
Mansfield, Edward Augustus, Arts	<i>Jonesport..</i>	College Street
March, Lindsay Jackson, Arts	<i>Easton</i>	111 H. H. Hall
Marden, Allen Harriman, Ee.	<i>Beverly, Mass.</i>	88 Main Street
Marsh, Alice Holbrook, He.	<i>Guilford</i>	Mt. Vernon House
Marshall, Leon Otis, Ag.	<i>Topsham</i>	Bennoch Street
Maxfield, Marie Avery, Arts	<i>Bangor</i>	151 Essex Street, Bangor
Merrill, Doris Pauline, Arts	<i>Bluchill</i>	Balentine Hall
Merrill, Marion Lees, He.	<i>Gray</i>	23 Mill Street
Merry, Matthew Henry, Ce.	<i>Vineyard Haven, Mass.</i>	203 Oak Hall
Merry, Silas Everett, Ee.	<i>Vineyard Haven, Mass.</i>	203 Oak Hall

CATALOG OF STUDENTS

Mills, Bessie Harding, Arts	Bangor	Mt. Vernon House
Mills, Marguerite, Arts	Bangor	Mt. Vernon House
Mitchell, Margaret Irene, Arts	Orono	14 Park Street
Mitchell, Walter James, Me.	Seymour, Conn.	405 H. H. Hall
Moody, Ralph Clifford, Fy.	New Britain, Conn.	Park Street
Morse, Joseph Peter, Me.	Abbott	Pine Street
Moulton, Alfred Kimball, Ee.	Alfred	College Street
Mulvaney, Arthur Danforth, Ee.	Bangor	35 Pleasant Street, Bangor
Murphy, Norman Bernard, Arts	Augusta	20 Grove Street
Murray, Agnes DeMings, Arts	Boothbay Harbor	Balentine Hall
MacBride, Winthrop Lawrence, Arts	Portland	Θ X House
MacGee, Albert Carlton, Ch. Eng.	Portland	Σ X House
MacKenney, Leroy Nelson, Eng.	Orono	Penobscot Street
MacKenzie, Bert Alexander, Arts	Orono	Forest Avenue
MacLeod, Florence Evelyn, Arts	Old Town	Old Town
McCabe, James Richard, Ee.	Kennebunkport	Θ X House
McCabe, John Francis, Ce.	Worcester, Mass.	Δ T Δ House
McCann, John Harding, Eng.	Bangor	74 Birch Street, Bangor
McCobb, Clayton Raphael, Arts	Center Lincolnville	Campus
McCrystle, Kathleen Emily, Arts	Berlin, N. H.	Mt. Vernon House
McDonald, Robert Joseph, Jr., Ce.	Methuen, Mass.	Σ A E House
McFarland, Ella Johnston, Arts	New Harbor	Balentine Hall
McGlaulin, Evelyn, Arts	Baring	Balentine Hall
McGouldrick, Philip Clare, Ch. Eng.	Augusta	University Inn
McGraw, Earl Cranston, Arts	South Orrington	33 Peters Street
McIntire, Merrill Hamilton, Ce.	Mapleton	Main Street
McManus, Edward Leo, Ee.	Bangor	183 Third Street, Bangor
Nealey, Everett Thornton, Jr., Arts	Bangor	402 H. H. Hall
Newton, Russell Vaughan, Ch.	Jackman	55 Park Street
Nickerson, Gerard Horace Salathiel, Ee.	Lubec	302 Oak Hall
Nolan, John Paul, Arts	Fitchburg, Mass.	36 Grove Street
Norton, Edward Lawry, Ee.	Rockland	10 Park Street
Ober, Ernest Deering, Ag.	Atkinson	College Street
O'Leary, Frederick Charles, Arts	Bangor	64 West Broadway, Bangor
Orcutt, Leon Monroe, Arts	Gouldsboro	3 Middle Street
O'Rourke, Lawrence Albert, Ch. Eng.	Saco	Forest Avenue
Packard, David Carroll, Ag.	Marion, Mass.	103 H. H. Hall
Paganucci, Romeo Joe, Ch. Eng.	Waterville	K Σ House

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Page, Lena Beatrice, He.	<i>Kingfield</i>	Balentine Hall
Palmer, Addison Boutelle, Ee.	<i>Bangor</i>	K Σ House
Palmer, Beatrice Chase, Arts	<i>Bangor 14</i>	Garland Street, Bangor
Park, Wilbur Abbott, Eng.	<i>Orono</i>	42 Mill Street
Parker, Harold Gordon, Ch.	<i>Foxcroft</i>	Φ Γ Δ House
Parsons, Dorothy, Arts	<i>Rye, N. H.</i>	Balentine Hall
Peabody, Gertrude Devitt, He.	<i>Princeton</i>	Balentine Hall
Pelletier, Henry Joseph, Ce.	<i>St. David</i>	Park Street
Perkins, Earl Halcot, Ce.	<i>Abbot Village</i>	Pine Street
Perry, Clark, Arts	<i>Machias</i>	K Σ House
Peterson, Christian William, Arts	<i>Portland</i>	College Street
Piper, Karl Prescott, Ch.	<i>Fairfield</i>	311 H. H. Hall
Porter, Wesley Fletcher, Ag.	<i>Patten</i>	36 Grove Street
Potter, George Alva, Fy.	<i>Mystic, Conn.</i>	College Street
Power, Percy Allen, Ch. Eng.	<i>Lincoln</i>	Φ K Σ House
Powers, Stella Florence, Arts	<i>Orono</i>	10 Pine Street
Pratt, Daniel Beals, Ag.	<i>Wilton</i>	409 H. H. Hall
Prince, Rufus, Eng.	<i>Turner</i>	310 H. H. Hall
Pulsifer, Mary Augusta, He.	<i>Auburn</i>	Balentine Hall
Ranney, Thaddeus Thorndike, Ce.	<i>Winn</i>	Φ K Σ House
Read, Marion Izora, Arts	<i>Orono</i>	Bennoch Street
Reardon, Jeremiah Timothy, Arts	<i>Portland</i>	K Σ House
Rice Richard Gorman, Fy.	<i>Fitchburg, Mass.</i>	204 H. H. Hall
Rich, Edmund Henry, Ag.	<i>Portland</i>	Φ Γ Δ House
Richards, Henry Lane, Arts	<i>Portland</i>	Φ Γ Δ House
Richardson, Flavia Lucile, Arts	<i>Old Town</i>	Old Town
Rickard, Barclay, Arts	<i>Denver, Col.</i>	403 Oak Hall
Riley, Edwin Alden, Ch. Eng.	<i>Livermore Falls</i>	204 H. H. Hall
Robbins, Earle Raymond, Ch. Eng.	<i>Livermore Falls</i>	204 H. H. Hall
Robbins, Maurice Smiley, Ee.	<i>Augusta</i>	Box 182, Orono
Roberts, Everett Louis, Ee.	<i>Bangor, 16</i>	Highland Ave. Bangor
Robinson, Arthur James, Ag.	<i>Bangor 463</i>	Main Street, Bangor
Robinson, Joseph Sidney, Ch. Eng.	<i>Houlton</i>	29 Pond Street
Rosenthal, Samuel Charles, Ee.	<i>Portland</i>	Φ Ε Π House
Rossiter, Sherman, Me.	<i>Worcester, Mass.</i>	Φ Γ Δ House
Rumill, Edna Lora, Arts	<i>Orono</i>	81 Mill Street
Russell, Carl Asa, Me.	<i>Portland</i>	303 Oak Hall
Sanborn, Clarence Winfred, Me.	<i>Lynn, Mass.</i>	15 Park Street
Sargent, Carl Aaron, Arts	<i>Westminster, Mass.</i>	A T Ω House
Schenck, Frederick Van Nydick, Arts	<i>Millinocket</i>	B Θ Π House
Schoonmaker, John Howard, Ce.	<i>Kingston, N. Y.</i>	Σ A E House

CATALOG OF STUDENTS

Scrimgeour, Charles William, Arts
 Seekins, Herbert Leslie, Ag.
 Segal, Israel, Ag.
 Sellow, George Philip, Ce.
 Shaughnessy, Edward William, Ee.

Shea, Oscar Albert, Arts
 Shoemaker, Wilbur Cartmell, Ee.
 Shorey, Leigh Temple, Ag.
 Simpson, Noil Howard, Ag.
 Small, Donald Wallace, Pm.
 Smith, Francis Earl, Ag.

Snow, Eveline Foster, He.
 Snow, Kathleen May, Arts
 Spooner, John Clay, Ag.
 Staples, Harold Sanborn, Arts
 Starrett, Henry Atherton, Ag.
 Stearns, Robert Sylvester, Me.
 Stephens, Raymond Donnell, Fy.
 Stetson, Dorothea Hayward, Arts
 Stevens, Carl Thompson, Ag.
 Stevens, Maurice Hoyt, Me.
 Stevens, Theodore Moulton, Arts
 Stevens, Van Mitchell, Arts
 Stevens, Wingate Irving, Fy.
 Stevenson, William Stanley, Ee.
 Stewart, Clyde Wentworth, Ch. Eng.
 Stewart, Robert Barclay, Ch.
 Stodder, Russell Henry, Ag.
 Stone, Fred Clinton, Arts
 Sullivan, Alphonso Denis, Ch. Eng.
 Sullivan, Paul Damian, Ch. Eng.
 Tarr, Alice Lillian, He.
 Taylor, Arthur Samuel, Ce.
 Thomas, Daniel Joseph, Arts
 Thompson, Bernard Vinal, Ch.
 Thompson, Carl James, Me.
 Thompson, Robert White, Arts
 Thurston, Lester Ralph, Ee.

Lewiston B Θ II House
Hartland Garland Street, Bangor
Lewiston 13 Pond Street
Natick, Mass. 303 H. H. Hall
Bangor

8 South Park Street, Bangor
Webster, Mass. Φ E II House
Derby Θ X House
Presque Isle Grove Street
Sanford 210 Oak Hall
East Machias College Street
Northampton, Mass.

R. F. D. 7, Bangor
Rockland Balentine Hall
Rockland Balentine Hall
Sherman Mills 7 Park Street
Carthage Σ A E House
Springfield, Mass. 409 H. H. Hall
Wayland, Mass. Φ K Σ House
Auburn B Θ II House
Houlton Balentine Hall
Woodfords 208 Oak Hall
Presque Isle Φ H K House
Portland 310 Oak Hall
Pittsfield Σ A E House
Portland 310 Oak Hall
Thorndike Grove Street
Saco A T Ω House
Waterville K Σ House
Somerville, Mass. B Θ II House
Cornish 111 Oak Hall
Berlin, N. H. College Street
Biddeford 29 Pond Street
Auburn Balentine Hall
Methuen, Mass. Σ A E House
Turner's Falls, Mass. Σ A E House
Easton R. F. D. 7, Bangor
Portland Φ Γ Δ House
Fitchburg, Mass. 36 Grove Street
Andover 402 H. H. Hall

UNIVERSITY OF MAINE

Tinker, Herbert Dunbar, Eng.	<i>Wolfeboro, N. H.</i>	88 Main Street
Tolman, Walter Sangster, Ch. Eng.	<i>Portland</i>	208 Oak Hall
Torrey, Norman Elvin, Arts	<i>Stonington</i>	K Σ House
Torsleff, Herbert St. John, Ag.	<i>Bangor</i>	311 Oak Hall
Towne, George Herbert, Me.	<i>Waltham, Mass.</i>	Φ K Σ House
Townsend, George Manley, Ce.	<i>Woodland</i>	10 Park Street
Tracy, Earle Bedford, Arts	<i>Winter Harbor</i>	Σ A E House
Trimm, Frederick Nathan, Ag.	<i>East Corinth</i>	25 Grove Street
Tripp, Grace Gertrude, Arts	<i>North New Portland</i>	Balentine Hall
Trueworthy, Ivan Acel, Arts	<i>Rockland</i>	Grove Street
Tuck, Alonzo Henry, Ag.	<i>Mapleton</i>	Box 152, Orono
Turner, Erwin Sibley, Eng.	<i>Topsham</i>	Φ H K House
Turner, O'Dillon Charles, Arts	<i>Veazie</i>	R. F. D. 7, Bangor
Urann, Arthur Reed, Ee.	<i>Egypt</i>	109 Oak Hall
Vaughan, Frederick Ray, Ch.	<i>Cherryfield</i>	Δ X A House
Verder, Walter Montgomery, Fy.	<i>Dorchester, Mass.</i>	Δ T Δ House
Wadlin, Swasey, Arts	<i>Canton</i>	Φ H K House
Waite, John Philip, Ch. Eng.	<i>Portland</i>	Φ Γ Δ House
Walker, Hortense Gilbert, He.	<i>Orono</i>	11 Penobscot Street
Walker, Stuart Frederick, Arts	<i>Livermore Falls</i>	Σ N House
Walsh, John Lawrence, Ch.	<i>Norwich, Conn.</i>	15 Park Street
Warren, Harold Howard, Arts	<i>Kenduskeag</i>	R. F. D. 7, Bangor
Waterman, Burleigh Rumery, Ce.	<i>Portland</i>	B Θ Π House
Watkins, Melvin Hawkes, Ce.	<i>Portland</i>	Δ T Δ House
Weed, Charles Clayton, Ag.	<i>Houlton</i>	29 Pond Street
Weed, George Wright, Ch. Eng.	<i>Thorndike</i>	20 Grove Street
Weeks, Ralph Church, Arts	<i>Augusta</i>	56 Park Street
Weeks, Victoria Olive, Arts	<i>Winslow</i>	Balentine Hall
Wellington, William Herbert, Fy.	<i>South Royalton, Vt.</i>	110 H. H. Hall
West, Frederic Roland, Me.	<i>Milo</i>	103 H. H. Hall
Weybrant, Max Elisha, Fy.	<i>Brunswick</i>	Δ X A House
Weymouth, Ava Marie, Arts	<i>Howland</i>	Balentine Hall
Whalen, Henry Edward, Arts	<i>Bangor</i>	32 Fern Street, Bangor
Whalen, Oscar Livermore, Arts	<i>Eastport</i>	Δ T Δ House
Whitcomb, Robert Campbell, Arts	<i>Orono</i>	72 Main Street
Whitcomb, Ruel Whitney, Arts	<i>Ellsworth Falls</i>	Park Street
White, Helen Patricia, Arts	<i>Orono</i>	8 Juniper Street
White, Walter Cornelius, Ce.	<i>Orono</i>	8 Juniper Street

CATALOG OF STUDENTS

Whited, Ernest Alfred, Me.	<i>Bridgewater</i>	212 Oak Hall
Whiteside, Frederick William, Ee.	<i>Orono</i>	38 Oak Street
Whitney, Bernice Marion, He.	<i>Thomaston</i>	Balentine Hall
Whitney, Sumner Prince, Me.	<i>Friendship</i>	80 Mill Street
Wilder, Carroll Deane, Ag.	<i>Washburn</i>	411 H. H. Hall
Willard, Fred Spear, Arts	<i>South Portland</i>	Σ N House
Willett, Orson Bither, Ee.	<i>East Corinth</i>	36 Grove Street
Williams, Doris Elaine, Arts	<i>Vinalhaven</i>	Balentine Hall
Williams, Leroy Gleason, Ee.	<i>South Union</i>	1 Middle Street
Wood, Carleton Pratt, Ch. Eng.	<i>Kingfield</i>	410 H. H. Hall
Wood, Matthew Spear, Eng.	<i>South Portland</i>	35 Park Street
Woodcock, Raymond Frank, Eng.	<i>Wilton</i>	Φ H K House
Woodman, Roger French, Fy.	<i>Plymouth, N. H.</i>	Α T Ω House
Worth, Harold Hinkley, Ch. Eng.	<i>Bangor</i>	
		R. D. 4, Ohio Street, Bangor
Wray, Ruth Arline, Arts	<i>Brewer</i>	Mt. Vernon House

COLLEGE OF LAW SENIORS

Baldwin, Dudley	<i>Cherryfield</i>	
		253 Union Street, Bangor
Bridgham, Wade Lawrence	<i>Bridgton</i>	
		148 Kenduskeag Avenue, Bangor
Brown, Cecil Earl	<i>Norway</i>	The Colonial, Bangor
Maine		
Chapman, Clyde Raymond	<i>Fairfield</i>	New Wilson, Bangor
Bowdoin College, 1912		
Corridon, John Henry	<i>Portland</i>	84 Cedar Street, Bangor
Donahue, Paul Edwin, A. B.	<i>Portland</i>	The Lowder, Bangor
Bowdoin; Harvard Law		
School		
Duffy, Edward Charles	<i>Rumford</i>	20 Fifth Street, Bangor
Maine		
Ford, Pearley Harvey	<i>Mechanic Falls</i>	
Bates		25 Brimmer Street, Brewer
Gallagher, James Augustine	<i>Bangor</i>	34 Elm Street, Bangor
Harmon, Erald	<i>Westbrook</i>	
		101 Sanford Street, Bangor
Haskell, Herbert Vaughn	<i>Lincoln</i>	103 Pine Street, Bangor

UNIVERSITY OF MAINE

Hollis, Harold William	<i>Lisbon Falls</i> 25 Fifth Street, Bangor
Hooker, Earl Dewey	<i>Bangor</i> The Colonial, Bangor
Hurley, Harold William	<i>Wareham, Mass.</i> 25 Fifth Street, Bangor
Maine	<i>Bangor</i> 84 Cedar Street, Bangor
Keating, Frederick Augustine	
Maine	
Kelleher, Michael Clarence, Jr.	<i>Westerly, R. I.</i> 61 Fourth Street, Bangor
Libby, Harry Cummings	<i>Portland</i> 108 Fourth Street, Bangor
Miles, Adelbert Laroy	<i>Ellsworth Falls</i> 253 Union Street, Bangor
Morse, Mayland Herbert	<i>Anson</i> 253 Union Street, Bangor
Rudman, Abraham Moses	<i>Bangor</i> 26 Market Street, Bangor

LAW JUNIORS

Blair, Wellington Arthur	<i>Waterville</i> 10 Cedar Street, Bangor
Maine	
Cohen, Robert	<i>Bangor</i> 305 Essex Street, Bangor
Couette, Ralph Hubert	<i>Bangor</i> 10 Second Street Avenue, Bangor
Cowan, Frank Irving, A. B.	<i>Bangor</i> 9 South Street, Bangor
Bowdoin, 1913	
Curran, James Joseph, A. B.	<i>Portland</i> 62 High Street, Bangor
St. Mary's, 1913	
Decker, Ernest Raymond	<i>Bangor</i> 16 Sanford Street, Bangor
Middlebury	
DeWolfe, James Codman	<i>Portland</i> The Colonial, Bangor
Fitzgerald, Charles Manning	<i>Bath</i> 21 Sanford Street, Bangor
Georgetown Law School	
Fitzgerald, John Cogan	<i>Bath</i> 21 Sanford Street, Bangor
Bowdoin	
Fortier, Albert James	<i>Livermore Falls</i> 103 Pine Street, Bangor
Hale, George Lester	<i>Belfast</i> 84 Cedar Street, Bangor
Maine	
Jones, Walter Converse	<i>Portland</i> 8 Union Place, Bangor
Maine	

CATALOG OF STUDENTS

Jordan, John Frederick	<i>Bangor</i> 143 Grove Street, Bangor
Katz, Hyman	<i>Bangor</i> 291 Pine Street, Bangor
Southern College of Medicine and Surgery	
Levin, Reuben	<i>Manchester Depot, Vt.</i>
Cornell	93 Elm Street, Bangor
Levenson, George Sidney	<i>Dorchester, Mass.</i>
	60 Court Street, Bangor
Loring, Fred Milton, A. B.	<i>Auburn</i> 16 Sanford Street, Bangor
Bates, 1910	
McGrath, William Joseph	<i>Bangor</i> 76 Court Street, Bangor
Maine	
Marcou, Napoleon Alphonse	<i>Waterville</i>
	21 Sanford Street, Bangor
Preti, Frank Peter	<i>Portland</i>
Maine	Phi Eta Kappa House, Orono
Quimby, Robert Sinclair	<i>West Hampton, N. H. Y. M. C. A.</i>
Vancore, Dixon Frederick	<i>Colebrook, N. H.</i>
	10 Cedar Street, Bangor

FIRST YEAR

Brown, Clarence Arthur, A. B.	<i>Portland</i> 25 Fifth Street, Bangor
Bowdoin, 1914	
Cohn, Abraham David George	<i>New York City</i>
	130 Essex Street, Bangor
Drapeau, Eudore Alphonse, A. B.	<i>Brunswick</i>
Bowdoin, 1916	114 Sanford Street, Bangor
Gilpatrick, Verner Elisha	<i>Orono</i> 14 Bennoch Street, Orono
Maine	
Godfrey, Noel Davis	<i>South Lubec</i>
Maine	8 Union Place, Bangor
Hayes, Harold Merrill, A. B.	<i>Foxcroft</i> 101 Union Street, Brewer
Bowdoin, 1914	
Isaacson, Benjamin	<i>Lewiston</i>
	327 Pine Street, Bangor
Needham, Stanlty Francis	<i>Old Town</i>
Maine	316 Center Street, Old Town
Nulty, William Bridgham, A. B.	<i>Lisbon Falls</i>
Bowdoin, 1910	25 Fifth Street. Bangor

UNIVERSITY OF MAINE

Sherman, Allen, A. B.
 Dartmouth, 1915, Harvard
 Law School
 Wood, Henry Gerard, A. B.
 Bowdoin, 1916

New Bedford, Mass.
 The Colonial, Bangor
Gouldsboro
 320 Hammond Street, Bangor

SPECIALS IN THE COLLEGE OF LAW

Blais, Frank Philip
 Crowley, Wallace Edgar
 Drew, Harold Ray
 Eames, Clayton Earle
 Colby
 Flanagan, William Joseph
 St. Anselm's
 Gillin, George Henry
 Harrisburg, Alexander
 Hurley, Charles William
 Lane, Orlando Hook
 Mahoney, Edmund Patrick
 Marquis, Joseph Augustin
 Colby
 Morris, Abraham
 Payson, Walter Mayo
 Colby
 Sanborn, Arthur Raymond
 Shaw, Norman
 Siddall, Cecil James
 Stevens, Norris Frederick
 Urbano, Angelo Joseph
 Walsh, Francis Allinson
 Ware, John
 Colby
 Watson, James Bennett
 Webber, Ralph Albert

Portland
 22 Sanford Street, Bangor
Bangor 61 Fourth Street, Bangor
Kennebunkport
 60 Court Street, Bangor
North Anson
 48 Summer Street, Bangor
Ellsworth 313 State Street, Bangor
Bangor 119 Pine Street, Bangor
Lewiston
 130 Essex Street, Bangor
Ellsworth, 29 Union St., Ellsworth
Topsfield 10 Cedar Street, Bangor
Portland 84 Cedar Street, Bangor
Waterville
 21 Sanford Street, Bangor
Bangor 36 Essex Street, Bangor
South Hope
 108 Fourth Street, Bangor
Island Falls
 10 Second Street Avenue, Bangor
Prospect Harbor
 320 Hammond Street, Bangor
Sanford Sanford
Rockland 25 Fifth Street, Bangor
Portland 59 Essex Street, Bangor
Bangor 210 Essex Street, Bangor
Waterville
 67 Cedar Street, Bangor
Bangor The Colonial, Bangor
Rockland 10 Cedar Street, Bangor

CATALOG OF STUDENTS

SPECIALS IN THE COLLEGES AT ORONO

Bean, Harold John, Ch.	<i>Old Town</i>	105 Oak Hall
Curtis, Walter Edson, Bl.	<i>Stillwater</i>	Stillwater
Dodd, Clarence John, Ec.	<i>Mexico</i>	College Street
Gilman, Elva, Ped.	<i>South Portland</i>	Balentine Hall
Hamlin, Emery Leroy, Ce.	<i>Portland</i>	88 Main Street
Handley, Hale Wright, Ag.	<i>Camden</i>	56 Park Street
Hickson, Eugene Francis, Ch. Eng.	<i>Upper Troy, N. Y.</i>	Mill Street
Hartwell, Walter Traver, Dh.	<i>Bangor</i>	74 Fern Street, Bangor
Hull, Edward Knevals, Arts	<i>Orono</i>	University Inn
Johnson, Paul Thorsten, Ag.	<i>Bar Harbor</i>	North Main Street
Joyce, Alvah Barbour, Es.	<i>Portland</i>	Σ K House
King, Alfred Rollins, Me.	<i>Fairfield</i>	B Θ Π House
Leavitt, Frank Leonard, Ce.	<i>Turner</i>	College Street
Leighton, Arthur Whiting, Ag.	<i>Abington, Mass</i>	University Inn
Lemont, Herbert Randall, Fy.	<i>Bath</i>	Σ A E House
Little, Nellie Ursula, Fr.	<i>Portland</i>	Mt. Vernon House
Longley, George Stephen, Ch. Eng.	<i>Lewiston</i>	B Θ Π House
Mann, Josephine Estelle, He.	<i>Orono</i>	40 Main Street
Marsh, Raeburne Lyndon, Dh.	<i>Bangor</i>	401 H. H. Hall
Moore, Harry Albert, Md.	<i>Bangor</i>	
	27 Autumn Street, Bangor	
Murer, Oscar Andreas, Ch.	<i>Rumford</i>	55 Bennoch Street
McCann, Mary Agnes, Arts	<i>Bangor</i>	
	61 Second Street, Bangor	
Newdick, Erlon Lincoln, Ag.	<i>Sanford</i>	K Σ House
Newell, George Esty, Ht.	<i>Houlton</i>	Φ K Σ House
Pattee, Karl Monroe, Ec.	<i>South Limington</i>	39 Mill Street
Potter, Raymond Page, Fy.	<i>Old Town</i>	College Street
Reed, Annie Hersey, Arts	<i>Orono</i>	36 College Street
Roberts, Marguerite Copeland, Arts	<i>Dexter</i>	Balentine Hall
Schweitzer, Lewis, Ch.	<i>Brooklyn, N. Y.</i>	College Street
Scott, Harold Guy Don, Arts	<i>Old Town</i>	Old Town
Smith, Edith Whitney, Ed.	<i>Gorham</i>	Bennoch Street
Tracy, Olive Frances, Arts	<i>Winter Harbor</i>	Balentine Hall
Whitney, Raymond Lee, Fy.	<i>North Anson</i>	307 H. H. Hall
Willey, Walter Francis, Ag.	<i>Kents Hill</i>	Σ AE House
Williams, Elmer Briry, Ed.	<i>Old Town</i>	Old Town
Woods, Audrey Freeman, He.	<i>Orono</i>	Main Street

UNIVERSITY OF MAINE

TWO-YEAR PHARMACY

SECOND YEAR

Berridge, Frank Edward	<i>East Lynn, Mass.</i>	College Street
Clark, Roger Hopkins	<i>Warren</i>	Pierce Street
Dorfman, Samuel	<i>Portland</i>	111 H. H. Hall
Mackenzie, Gerald Leroy	<i>West Franklin</i>	405 Oak Hall
Simpson, Helen Antoinette	<i>Waterville</i>	Balentine Hall
Smargonsky, Isaac	<i>Ashland</i>	Φ E II House

FIRST YEAR

Barbour, Bentley Lawrence	<i>Rockland</i>	Peters Street
Burgoyne, William Joseph	<i>Fort Kent</i>	Stillwater
Davis, Jacob Joseph	<i>Bangor</i>	Φ E II House
Delano, Freeland Derward	<i>Vinalhaven</i>	Peters Street
Emerson, Clarence Lee	<i>Brewer</i>	Brewer
Hopkins, Sylvester Bartlett	<i>East Lynn, Mass.</i>	Θ X House
Morgan, Clifford Milton	<i>Caribou</i>	403 H. H. Hall
Perkins, Frederic Eugene	<i>Bangor</i>	17 Fourth Street, Bangor
Weymouth, Leon Joseph	<i>Gorham</i>	108 Oak Hall

TWO-YEAR HOME ECONOMICS

SECOND YEAR

Gardner, Ruth Electa	<i>Westfield, Mass.</i>	Balentine Hall
Hamor, Gladys Leone	<i>Bangor</i>	
	22 Kenduskeag Avenue, Bangor	
Little, Aleida Elizabeth	<i>Portland</i>	Mt. Vernon House
McCann, Mary Elizabeth	<i>Bangor</i>	74 Birch Street, Bangor
Mooney, Maria Augusta	<i>Orono</i>	105 Main Street
Osler, Bertha	<i>Orono</i>	56 Forest Avenue
Pretto, Theresa Helen	<i>Bangor</i>	50 Pine Street, Bangor
Sawyer, Lula Frances	<i>Brewer</i>	Mt. Vernon House

SCHOOL COURSE IN AGRICULTURE

SECOND YEAR

Adams, Carl Frank	<i>Kennebunkport</i>	Stillwater
Allen, Herbert Marsena	<i>Bangor</i>	36 Charles Street, Bangor

CATALOG OF STUDENTS

Benson, Alton Howard
 Beverage, Arthur Walter
 Bickford, Harry Elmer
 Brown, Earl Stanley
 Elliott, Robert Stephen Clark
 Hagstrom, Conrad Walfrid
 Jacobs, Franklin Oscar
 Jameson, Foster Davis
 Kyes, Ralph Granville
 Marshall, Mason Henry
 Parker, Stanley Bradbury
 Pendleton, Raymond Fowles
 Pratt, Charles Lewis
 Sullivan, Daniel Cleveland
 Thomas, Fletcher Alton
 Thompson, Arthur Wright
 Weeks, Fred Warren
 Weeks, Harold Cass
 Worthley, Clifford Nelson
 Wright, William Trott

<i>Kennebunkport</i>	Stillwater
<i>Pulpit Harbor</i>	109 H. H. Hall
<i>Searsmont</i>	Garland Street, Bangor
<i>Presque Isle</i>	College Street
<i>Centerville, Mass.</i>	109 H. H. Hall
<i>Oxford, Mass.</i>	Grove Street
<i>West Berlin, Mass</i>	306 Oak Hall
<i>Friendship</i>	80 Mill Street
<i>North Jay</i>	109 H. H. Hall
<i>Topsham</i>	Bennoch Street
<i>South Leeds</i>	101 H. H. Hall
<i>Camden</i>	Campus
<i>Yarmouthville</i>	North Main Street
<i>Lubec</i>	20 Grove Street
<i>Leeds Center</i>	310 H. H. Hall
<i>Portland</i>	305 Oak Hall
<i>Cornville</i>	A X A House
<i>Marlboro, Mass.</i>	203 H. H. Hall
<i>Strong</i>	203 H. H. Hall
<i>Woolwich</i>	North Main Street

FIRST YEAR

Allen, Herbert Moody
 Barbour, Lester Prentiss
 Bessey, Gerald Heald
 Bishop, George Lowell
 Bridges, Henry Styles
 Call, Lester Carol
 County, Timothy William
 Damon, Lerone Mellen
 Day, Irving Hall
 Goodwin, Elmer Mills
 Jonhonneth, Aubrey Herman

<i>Wilton</i>	209 H. H. Hall
<i>Brewer</i>	R. F. D. 7, Bangor
<i>South Paris</i>	207 Oak Hall
<i>Presque Isle</i>	Stillwater
<i>West Pembroke</i>	29 Pond Street
<i>Carmel</i>	36 Grove Street
<i>Saco</i>	A T O House
<i>Buckfield</i>	209 Oak Hall
<i>Stowe</i>	Bennoch Street
<i>Eliot</i>	College Street

LaPoint, Edmund Robert
 Lindgren, Hilmer Harold
 Nichols, Wadsworth
 Nickerson, Fred Levett
 Raymond, Harlan Warren

<i>Hampden Highlands</i>	
<i>Orono</i>	29 Forest Avenue
<i>Bangor</i>	Garland Street, Bangor
<i>Buxton</i>	104 Oak Hall
<i>Bangor</i>	628 Union Street, Bangor
<i>Westbrook</i>	104 Oak Hall

UNIVERSITY OF MAINE

Redman, Arlo Lee	<i>Belfast</i>	College Street
Sawyer, Charlie Alexander	<i>Thomaston</i>	Mill Street
Tomlinson, Bertram	<i>Livermore Falls</i>	College Street
Wallingford, John Gowell	<i>Auburn</i>	Φ H K House
Warren, Ralph Edward	<i>Lisbon Falls</i>	Stillwater
Waterman, Erland Hancock	<i>Buckfield</i>	207 Oak Hall
Wheeler, Ralph Jones	<i>Brewer</i>	Brewer

SUMMER TERM

Adams, George Joseph	<i>Orono</i>	
Adams, James Abraham, B. A. Maine, 1915	<i>Orono</i>	
Allen, Lloyd Carroll, A. B. Bates, 1914	<i>Auburn</i>	
Allen, William Henry	<i>Brownville Junction</i>	
Andrews, Myra Higgins	<i>Exeter</i>	
Bain, Herbert Soley, A. B. Wesleyan, 1912	<i>Orono</i>	
Barker, Corinne Maude	<i>Bangor</i>	
Bartlett, Robert Whitney	<i>Westfield, Mass.</i>	
Beach, Dorothea	<i>Bangor</i>	
Berman, Harry	<i>Lewiston</i>	
Blaisdell, Catherine	<i>Winterport</i>	
Blaisdell, Cora May	<i>Winterport</i>	
Blanding, Lora Elizabeth	<i>Bangor</i>	
Boyd, Elmer Trickey, A. B., A. M. Bowdoin, 1895, Harvard, 1901	<i>Bangor</i>	
Brackett, Altie Franklin	<i>Berwick</i>	
Brown, Clifford	<i>Portland</i>	
Bryant, Herbert Lorenzo, A. B. Bowdoin, 1912	<i>Round Pond</i>	
Buncke, Harry Jacob, C. E. Columbia, 1915	<i>Whitestone, New York, N. Y.</i>	
Butters, Arthur Erwin, B. A. Maine, 1916	<i>Old Town</i>	
Callahan, Mildred Laurel	<i>Island Falls</i>	
Carleton, Edward Frazier, B. A. Maine, 1912	<i>Parsonsfield</i>	

CATALOG OF STUDENTS

Chase, Martha Durgin, A. B.
Boston University, 1906

Clark, Joseph Farwell

Clarke, George Clarence, B. A.
Maine, 1913

Cleveland, Orestes

Cobb, Harold Payson, A. B.
Wesleyan, 1913

Corning, Clarence Hamilton

Crockett, Bessie Lee

Crowell, Alice Maud

Davis, Manley Webster

Dennis, Eleanor Bessie

Dodge, Richard Bouldsby

Dole, Margaret

Drummond, Marjorie Beverly

Dunnack, Smith

Edmunds, Charles Stover

Estabrooke, Carl Bertrand, B. A.,
1916, M. A. Maine, 1912

Falvey, John Michael

Farnham, Walter Elwood

Fenderson, Kendrick Elwell

Fletcher, Robert Kemble

Fowler, Enna Wilbur

Frost, Ida Ethel

Grant, Eva Leonore

Gray, Ernest Linwood

Greenacre, Genevieve May

Greenleaf, Florence Evelyn

Goodier, Edna Amy

Hall, Earl Stanley

Hamlin, Golda Gushel

Hamlin, Joseph Wilbur

Harmon, Frank Lorenzo

Haskell, Horace Bray

Haskell, Marian Elizabeth

Haskell, Ralph Everett

Haskell, Weston Bradford

Herrick, Carleton Sewall

Portland

Cambridge, Mass.

Kent's Hill

Albany, N. Y.

Searsmont

Bangor

Washington, D. C.

Boston, Mass.

Guilford

Bangor

Machias

Bangor

Orono

Bangor

Bangor

Boston, Mass.

Orono

Orono

Gorham

Orono

Portland

Bangor

Bangor

South Berwick

Bangor

Auburn

Saco

Springfield, Mass.

Woodland

Woodland

Corinna

Ellsworth

Ellsworth

Ellsworth

Auburn

South Brewer

UNIVERSITY OF MAINE

Hewes, Vergn Edmontine
 Hodgkins, Lois
 Holmes, Adrian Emery
 Hooper, Henry Stinson
 Hopkins, Adele Cecilia
 Hurley, Alice Mary
 Hurley, Catherine Agnes
 Hutchinson, Edward Blake
 Ingersoll, Dorothy Ruth
 Jack, George Edwin, A. B.

Bates, 1910

Johnson, Carl Strong
 Jordan, Ruth
 Jordan, Marion Luella, B. A.

Maine, 1914

Keep, John Marcus
 Kent, Paul Glen
 Kiernan, John Henry
 Kimball, Lester Willis
 King, Harold Louis
 Lackey, Mary
 Lawler, Mark Robinson
 Leacock, John Thomas
 Lucas, John Wilbur
 Lunt, Lucy Barton
 Magee, John Henry
 Miles, Elsie Estelle, A. B.

Boston University, 1909

Monroe, John Reed
 Mooers, Horatio Tobey
 Mooney, Maria Augusta
 Mullen, Charles Emerson
 McCann, Mary Agnes
 Macdonald, Irving Clifford
 McSkimmon, Donald
 Noddin, Effie, A. B.

Maine Wesleyan Seminary and Female College, 1909

Norcross, Esther Kathryn
 O'Bryan, Evelyn May
 Orcutt, Hollis

Saco
Bangor
Buckfield
Orono
Old Town
Frankfort
Ellsworth
Buckfield
Orono
Bowdoinham

Easthampton, Mass.

Old Town

Old Town

North Conway, N. H.

Fitchburg, Mass.

Wareham, Mass.

Cliftondale, Mass.

Orono

Washington, D. C.

Southwest Harbor

North Andover, Mass.

Portland

South Brewer

Bangor

Patten

Monroe

Skowhegan

Orono

Bangor

Bangor

Portland

Brookline, Mass.

Kent's Hill

Old Town

Boston, Mass.

Franklin

CATALOG OF STUDENTS

Paul, George Boss, Ph. C. Maine, 1914	<i>York Beach</i>
Pearson, Fred Almore	<i>Buckfield</i>
Partridge, Clara Estelle	<i>Pemaquid Beach</i>
Partridge, Jennie Velma	<i>Pemaquid Beach</i>
Perkins, Lena Georgia	<i>Oxford</i>
Perry, Mildred Geneva	<i>R. F. D. 7, Bangor</i>
Phillips, Ray Eugene	<i>Newport</i>
Phinney, Chester Squire, B. A. Maine, 1911	<i>Pawtucket, R. I.</i>
Post, Lawrence Leicester	<i>Alfred</i>
Pretto, Theresa Helena	<i>Bangor</i>
Rao, Ramanathapur Sitarama, B. Sc., University of Bombay, 1913	<i>Bangalore, India</i>
Rhind, Ethel Knowlton	<i>Stillwater</i>
Ring, Arthur Andrews	<i>Orono</i>
Robinson, Arthur James	<i>Bangor</i>
Russell, George Frederick	<i>Methuen, Mass.</i>
Savage, Arno Charles	<i>Bangor</i>
Schenck, Frederic Van Nydick	<i>Millinocket</i>
Simms, Henry Swain	<i>Gorham</i>
Smith, Oscar Samuel, B. A. Maine, 1913	<i>Bangor</i>
Snow, Charles Augustus	<i>Stockton Springs</i>
Stetson, Robert Stanwood	<i>Brunswick</i>
Stinson, Parker Burroughs, A. B. Bates, 1915	<i>Wiscasset</i>
St. Onge, Arthur Amos, B. A. Maine, 1914	<i>Foxcroft</i>
Stoughton, Richard	<i>Montague, Mass.</i>
Swasey, Guy Henry, A. B. Bates, 1914	<i>Lincoln</i>
Tarbox, James Obadiah, A. B. Bowdoin, 1914	<i>Newcastle</i>
Thurlow, Myra Dunn	<i>Stillwater</i>
Toner, Ernest Leroy, B. S. Maine, 1907	<i>Orono</i>
Towne, Mary Elizabeth	<i>Brookline, Mass.</i>
Trimm, Harriet Mae	<i>East Corinth</i>
Urann, Eugene Harrison	<i>East Sullivan</i>

UNIVERSITY OF MAINE

Urann, Florice Clark
Violette, Genevieve Augusta
Wadleigh, Verna
Wardwell, Simon Murray
Watkins, Herbert Everett
Whitcher, George Edward
Whitcomb, Charles Floyd
White, Mattie
Whittier, Charles LeRoy
Williams, Harriet Robbins
Winter, Clifford Maurice
Wood, Margaret Allen

East Sullivan
Milford
Kezar Falls
Auburn
Portland
Berlin, N. H.
New Sharon
Exeter
Stillwater
South Union
Kingfield
Bar Harbor

GENERAL SUMMARY

GENERAL SUMMARY

FACULTY

President	1
Professors	43
Associate Professors	14
Assistant Professors	20
County Agricultural Agents	12
Instructors	54
Lecturers	8
Assistants	4
Miscellaneous	8

Total	164
-------	-----

College of Agriculture	44
College of Arts and Sciences	49
Agricultural Experiment Station	17
College of Law	11
College of Technology	35
Officers common to all Colleges	8

Total	164
-------	-----

STUDENTS

Graduate Students	42
Seniors	166
Juniors	192
Sophomores	231
Freshmen	389
Specials	36

UNIVERSITY OF MAINE

College of Law, Seniors	20	
Juniors	22	
First Year	11	
Specials	22	75
<hr/>		
Two-Year Curriculum in Pharmacy		
First Year	9	
Second Year	6	15
Two-Year Course in Home Economics		
Second Year	8	
(No students admitted after 1915)		
School Course in Agriculture		
First Year	23	
Second year	22	45
Summer Term	136	
Total (omitting duplicates 59)		
<hr/>		
	1276	

CLASSIFICATION BY RESIDENCE

<p>Maine, by counties :</p> <p>Androscoggin</p> <p>Aroostook</p> <p>Cumberland</p> <p>Franklin</p> <p>Hancock</p> <p>Kennebec</p> <p>Knox</p> <p>Lincoln</p> <p>Oxford</p> <p>Penobscot</p> <p>Piscataquis</p> <p>Sagadahoc</p> <p>Somerset</p> <p>Waldo</p> <p>Washington</p> <p>York</p>	<p>67</p> <p>60</p> <p>163</p> <p>32</p> <p>57</p> <p>59</p> <p>41</p> <p>27</p> <p>35</p> <p>298</p> <p>33</p> <p>17</p> <p>39</p> <p>30</p> <p>45</p> <p>78</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>1081</p>
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GENERAL SUMMARY

California	1	
Colorado	1	
Connecticut	20	
District of Columbia	2	
Indiana	2	
Massachusetts	128	
New Hampshire	24	
New York	10	
Rhode Island	3	
Vermont	2	
China	1	
India	1	195
		<hr/>
		1276

ORGANIZATION BY COLLEGES

Graduate students	42	
College of Agriculture	325	
College of Arts and Sciences	399	
College of Law	75	
College of Technology	435	
		<hr/>
		1276

CANDIDATES FOR DEGREES

Graduate Students	35
College of Agriculture	259
College of Arts and Sciences	310
College of Law	53
College of Technology	424

UNIVERSITY OF MAINE

The following students registered in short courses given in the
College of Agriculture, January to February, 1916.

Name	Course	Home Address
Donald Bachelder	General Agriculture	
	28 Congress St., Bangor	
Lewis C. Berry	Dairying	Livermore Falls
Arthur T. Craig	Poultry Husbandry	Fairfield
Harold E. Dean	General Agriculture	Lincolnville
Frank E. Eastman	Poultry Husbandry	Wirthrop
Mrs. Frank Emerson	Dairying	Enfield
G. Franklin Frost	General Agriculture	Dennysville
Mrs. Maurice H. Gray	Dairying	Old Town
Mrs. Eleanor M. Hall	Poultry Husbandry	New Sweden
Myron L. Holmon	Dairying	Dixfield
Ceylon M. Kimball	Dairying	Bethel
Albert B. Kettell	Dairying	Holden
Arthur Levasseur	General Agriculture	
	335 Congress St., Portland	
Simon J. Luce	Dairying	Farmington
Galen M. Low	Horticulture	695 High St., Bath
Philip M. Plummer	Dairying	Portland
William A. Rich	General Agriculture	Bangor
A. Robertson	Poultry Husbandry	North Jay
Herbert A. Sanborn	Poultry Husbandry	
	14 Federal St., Salem, Mass.	
Everett E. Tilton	General Agriculture	Albion
Peter J. Vincent	Poultry Husbandry	
	R. F. D. #7, Skowhegan	

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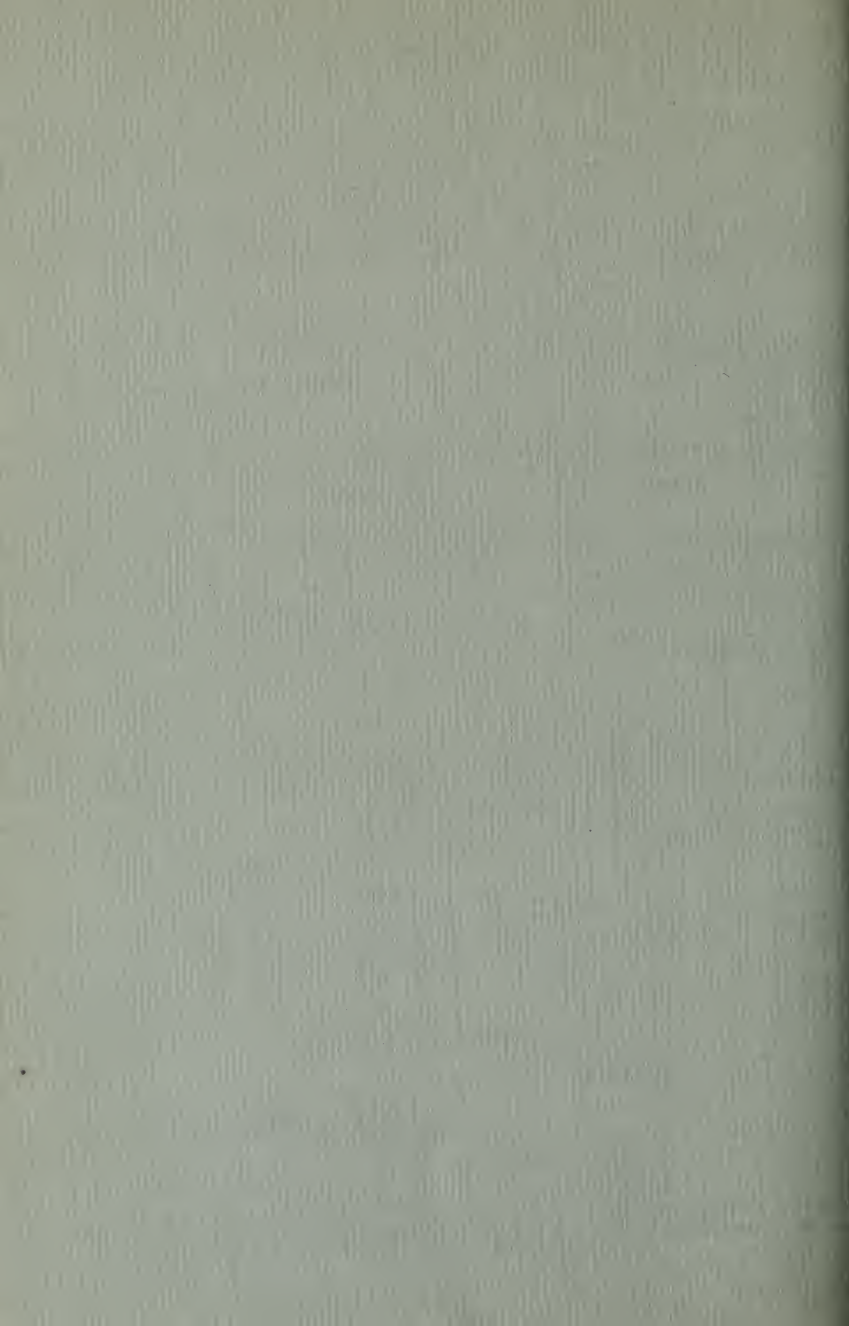
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No. 3

CATALOG

OF THE

UNIVERSITY OF MAINE



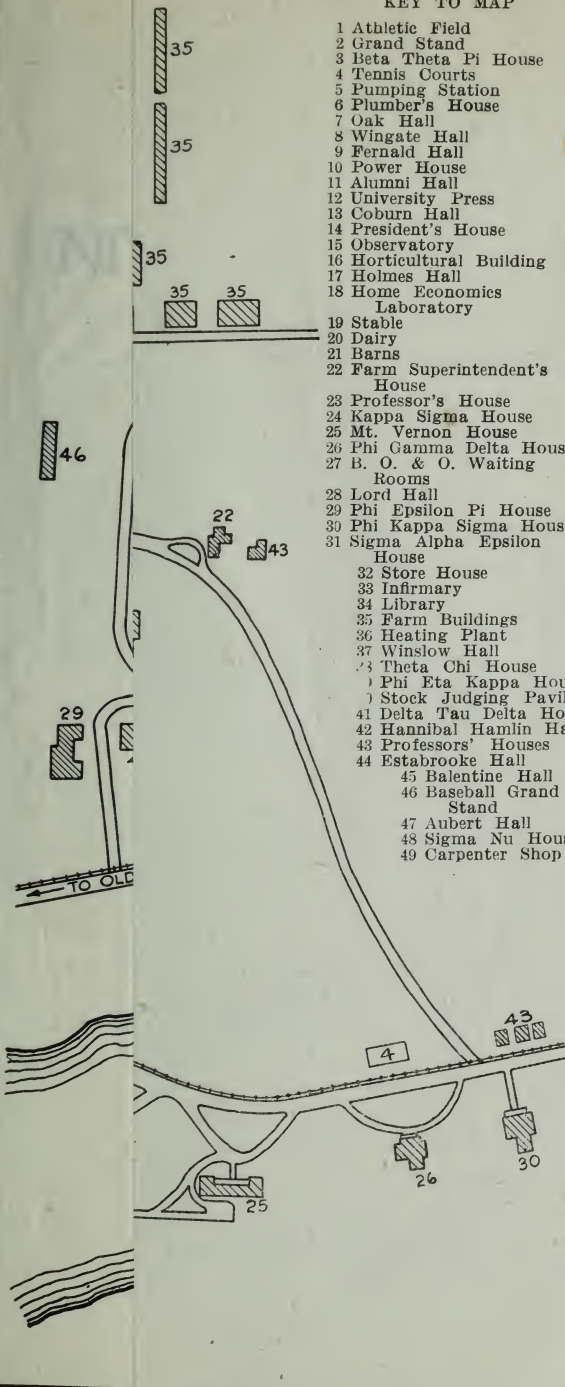
1917 - 1918

Published monthly during the academic year by the University
Entered at the Orono post office as second class matter

KEY TO MAP

- 1 Athletic Field
- 2 Grand Stand
- 3 Beta Theta Pi House
- 4 Tennis Courts
- 5 Pumping Station
- 6 Plumber's House
- 7 Oak Hall
- 8 Wingate Hall
- 9 Fernald Hall
- 10 Power House
- 11 Alumni Hall
- 12 University Press
- 13 Coburn Hall
- 14 President's House
- 15 Observatory
- 16 Horticultural Building
- 17 Holmes Hall
- 18 Home Economics Laboratory
- 19 Stable
- 20 Dairy
- 21 Barns
- 22 Farm Superintendent's House
- 23 Professor's House
- 24 Kappa Sigma House
- 25 Mt. Vernon House
- 26 Phi Gamma Delta House
- 27 B. O. & O. Waiting Rooms
- 28 Lord Hall
- 29 Phi Epsilon Pi House
- 30 Phi Kappa Sigma House
- 31 Sigma Alpha Epsilon House
- 32 Store House
- 33 Infirmary
- 34 Library
- 35 Farm Buildings
- 36 Heating Plant
- 37 Winslow Hall
- 38 Theta Chi House
- 39 Phi Eta Kappa House
- 40 Stock Judging Pavilion
- 41 Delta Tau Delta House
- 42 Hannibal Hamlin Hall
- 43 Professors' Houses
- 44 Estabrooke Hall
- 45 Balentine Hall
- 46 Baseball Grand Stand
- 47 Aubert Hall
- 48 Sigma Nu House
- 49 Carpenter Shop

NE



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CATALOG OF THE
UNIVERSITY OF MAINE

1917-1918



ORONO, MAINE

THE UNIVERSITY PRESS
ORONO, MAINE
1917

1917	1918	1918	1919
JULY	JANUARY	JULY	JANUARY
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
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15 16 17 18 19 20 21	13 14 15 16 17 18 19	14 15 16 17 18 19 20	12 13 14 15 16 17 18
22 23 24 25 26 27 28	20 21 22 23 24 25 26	21 22 23 24 25 26 27	19 20 21 22 23 24 25
29 30 31 -- -- --	27 28 29 30 31 -- --	28 29 30 31 -- -- --	26 27 28 29 30 31 --
AUGUST	FEBRUARY	AUGUST	FEBRUARY
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19 20 21 22 23 24 25	17 18 19 20 21 22 23	18 19 20 21 22 23 24	16 17 18 19 20 21 22
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SEPTEMBER	MARCH	SEPTEMBER	MARCH
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23 24 25 26 27 28 29	24 25 26 27 28 29 30	29 30 -- -- -- --	23 24 25 26 27 28 29
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OCTOBER	APRIL	OCTOBER	APRIL
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14 15 16 17 18 19 20	14 15 16 17 18 19 20	13 14 15 16 17 18 19	13 14 15 16 17 18 19
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NOVEMBER	MAY	NOVEMBER	MAY
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18 19 20 21 22 23 24	19 20 21 22 23 24 25	17 18 19 20 21 22 23	18 19 20 21 22 23 24
25 26 27 28 29 30 --	26 27 28 29 30 31 --	24 25 26 27 28 29 30	25 26 27 28 29 30 31
DECEMBER	JUNE	DECEMBER	JUNE
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16 17 18 19 20 21 22	16 17 18 19 20 21 22	15 16 17 18 19 20 21	15 16 17 18 19 20 21
23 24 25 26 27 28 29	23 24 25 26 27 28 29	22 23 24 25 26 27 28	22 23 24 25 26 27 28
30 31 -- -- -- --	30 -- -- -- -- --	29 30 31 -- -- --	29 30 -- -- -- --

Calendar

FALL SEMESTER, 1917

October	5-9,		Arrearage examinations; entrance examinations
October	10,	Wednesday,	Registration, 8.00 A. M.—5.00 P. M.
October	11,	Thursday,	Registration, 8.00 A. M.—5.00 P. M. First chapel, 11.00 A. M.
November	29,	Thursday,	Thanksgiving Day, a holiday
December	21,	Friday,	Christmas recess begins, 12.00 M.
December	31,	Monday,	Christmas recess ends, 12.00 M.

1918

February	8,	Friday,	Fall semester ends, 5.05 P. M.
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SPRING SEMESTER, 1918

February	9,	Saturday,	Registration
February	11,	Monday,	Spring semester begins, 8.00 A. M.
February	22,	Friday,	Washington's Birthday, a holiday
April	19,	Friday,	Patriot's Day, a holiday
May	30,	Thursday,	Memorial Day, a holiday
June	5-8,		Entrance examinations
June	9,	Sunday,	Baccalaureate address
June	10,	Monday,	Class Day
June	11,	Tuesday,	Meeting of Board of Trustees
June	12,	Wednesday,	COMMENCEMENT, 9.30 A. M.

SUMMER TERM

June	24,	Monday,	Summer Term begins, 8.00 A. M.
August	2,	Friday,	Summer Term ends

UNIVERSITY OF MAINE

FALL SEMESTER, 1918

September	13-17,		Arrearage examinations; entrance examinations
September	18,	Wednesday,	Registration, 8.00 A. M.
September	19,	Thursday,	Registration; first chapel, 11.00 A.M.
November	28,	Thursday,	Thanksgiving Day, a holiday
December	18,	Wednesday,	Christmas recess begins, 12.00 M.

1919

January	2,	Thursday,	Christmas recess ends, 12.00 M.
January	31,	Friday,	Fall semester ends, 5.05 P. M.

SPRING SEMESTER, 1919

February	1,	Saturday,	Registration
February	3,	Monday,	Spring semester begins, 8 A. M.
June	11,	Wednesday,	COMMENCEMENT

The University will probably postpone the time of opening in 1918 if the war conditions continue.

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Board of Trustees

Hon. SAMUEL WADSWORTH GOULD, B. S., President	Skowhegan
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Term expires December 31, 1919	
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Term expires May 31, 1918	
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Term expires April 28, 1922	
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Term expires May 31, 1924	
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FARM COMMITTEE: Jones, Doherty, and Guernsey	

UNIVERSITY OF MAINE

**Maine Agricultural Experiment
Station Council**

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WARNER JACKSON MORSE, Ph. D.	
RAYMOND PEARL, Ph. D.	
HERMAN HERBERT HANSON, M. S.	
FRANK MACY SURFACE, Ph. D.	

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CHARLES JOHN DUNN, Treasurer. 4 Alumni Hall, 51 Bennoch Street
JAMES ADRIAN GANNETT, Registrar. 2 Alumni Hall, 167 Main Street

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JAMES STACY STEVENS, Dean of the College of Arts and Sciences. 200 Aubert Hall, 175 Main Street
CHARLES DAYTON WOODS, Director of the Maine Agricultural Experiment Station. Holmes Hall, 133 Main Street
WILLIAM EMANUEL WALZ, Dean of the College of Law. D Stewart Hall, 8 Fifth Street, Bangor
HAROLD SHERBURNE BOARDMAN, Dean of the College of Technology. 12 Wingate Hall, 68 Main Street

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ANIMAL INDUSTRY. Professor Corbett, 14 Winslow Hall, Campus
BACTERIOLOGY AND VETERINARY SCIENCE. Professor Russell, 13 Winslow Hall, 132 College Street
BIOLOGICAL AND AGRICULTURAL CHEMISTRY. Professor Merrill, 15 Winslow Hall, 178 Main Street
BIOLOGY. Professor Chrysler, 24 Coburn Hall, 370 College Street

UNIVERSITY OF MAINE

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- CHEMISTRY. Professor Easley, 211 Aubert Hall, 162 College Street
- CHEMISTRY (AGRICULTURAL EXPERIMENT STATION). Professor Bartlett, Holmes Hall, 148 College Street
- CIVIL ENGINEERING. Professor Brown, 28 Wingate Hall, 129 Main Street
- ECONOMICS AND SOCIOLOGY. Professor Stephens, 10 Coburn Hall, 158 College Street
- EDUCATION. President Aley, 2A Alumni Hall, Campus
- ELECTRICAL ENGINEERING. Professor Barrows, 21 Lord Hall, 36 Myrtle Street
- ENGLISH. Professor Stevens, 200 Aubert Hall, 175 Main Street
- ENTOMOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Patch, Holmes Hall, College Street
- FARM MANAGEMENT. Professor Simmons, 26 Winslow Hall, 4 Gilbert Street
- FORESTRY. Professor Briscoe, 24 Winslow Hall, 380 College Street
- FRENCH. Professor Segall, 14 Fernald Hall, 7 Mill Street
- GEOLOGY. Professor Merrill, 15 Winslow Hall, 178 Main Street
- GERMAN. Professor Thompson, 22 Fernald Hall, 180 Main Street
- GREEK CIVILIZATION. Professor Huddilston, 28 Library, 193 Main Street
- HISTORY. Professor Colvin, 11 Coburn Hall, University Inn
- HOME ECONOMICS. Professor Freeman, 4 The Maples, University Inn
- HORTICULTURE. Professor B. S. Brown, 32 Winslow Hall, 44 Forest Avenue
- LATIN. Professor Chase, 15 Wingate Hall, 143 Main Street
- LAW. Professor Walz, D Stewart Hall, 8 Fifth Street, Bangor
- MATHEMATICS AND ASTRONOMY. Professor Hart, 5 Alumni Hall, 130 College Street
- MECHANICAL ENGINEERING. Professor Sweetser, 20 Lord Hall, 184 Main Street
- MECHANICS AND DRAWING. Professor Weston, 15 Wingate Hall, 356 College Street

*In government service. On leave of absence without pay

OFFICERS OF ADMINISTRATION

- MILITARY SCIENCE. Major Lang, 9 Alumni Hall, University Inn
- MUSIC. Director Sprague, 30 Coburn Hall, 217 Union Street, Bangor
- PHARMACY. Professor Jarrett, 321 Aubert Hall, 36 Forest Avenue
- PHILOSOPHY. Professor Craig, 23 Wingate Hall, 32 College Street
- PLANT PATHOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Morse, Holmes Hall, 51 North Main Street
- PHYSICS. Professor Stevens, 200 Aubert Hall, 175 Main Street
- POULTRY HUSBANDRY. Professor Corbett, 14 Winslow Hall, Campus
- PUBLIC SPEAKING. Professor Daggett, 5 Estabrooke Hall, 36 College Street
- SPANISH AND ITALIAN. Professor Raggio, 11 Fernald Hall, 180 Main Street

*Faculty of Instruction and Investigation

ROBERT JUDSON ALEY, President and Acting Head of the Department of Education.

B. S., Valparaiso, 1882; A. B., Indiana, 1888; A. M., 1890; Ph. D., Pennsylvania, 1897; LL. D., Franklin, 1909; Pennsylvania, 1917

JAMES MONROE BARTLETT, Chemist in the Agricultural Experiment Station
B. S., Maine, 1880; M. S., 1883

LUCIUS HERBERT MERRILL, Professor of Biological and Agricultural Chemistry.

B. S., Maine, 1883; Sc. D., 1908

JAMES NORRIS HART, Dean of the University and Professor of Mathematics and Astronomy.

B. C. E., Maine, 1885; C. E., 1890; M. S., Chicago, 1897; Sc. D., Maine, 1908

FREMONT LINCOLN RUSSELL, Professor of Bacteriology and Veterinary Science.

B. S., Maine, 1885; V. S., New York College of Veterinary Surgeons, 1886

JAMES STACY STEVENS, Dean of the College of Arts and Sciences, Professor of Physics, and Acting Head of the Department of English.

B. S., Rochester, 1885; M. S., 1888, and Syracuse, 1889; LL. D., Rochester, 1907

CHARLES DAYTON WOODS, Director of the Agricultural Experiment Station.

B. S., Wesleyan, 1880; Sc. D., Maine, 1905

JOHN HOMER HUDDILSTON, Professor of Greek Civilization.

A. B., Baldwin, 1890 and Harvard, 1893; Ph. D., Munich, 1897

WILLIAM EMANUEL WALZ, Dean of the College of Law and Professor of Law.

A. B., Northwestern College, 1880; A. M., 1882; LL. B., Harvard, 1889; Litt. D., Bowdoin, 1911

*Arranged in groups in order of seniority of appointment

FACULTY

JACOB BERNARD SEGALL, Professor of French.

B. S. and B. L., Yassy, 1884; Ph. D., Columbia, 1893

HAROLD SHERBURNE BOARDMAN, Dean of the College of Technology and Professor and Head of the Department of Civil Engineering.

B. C. E., Maine, 1895; C. E., 1898

GEORGE DAVIS CHASE, Professor of Latin.

A. B., Harvard, 1889; A. M., 1895; Ph. D., 1897

CAROLINE COLVIN, Professor of History.

A. B., Indiana, 1893; Ph. D., Pennsylvania, 1901

WARNER JACKSON MORSE, Plant Pathologist in the Agricultural Experiment Station.

B. S., Vermont, 1898; M. S., 1903; Ph. D., Wisconsin, 1912

CHARLES PARTRIDGE WESTON, Professor of Mechanics and Drawing.

B. C. E., Maine, 1896; C. E., 1899; A. M., Columbia, 1902

*RAYMOND PEARL, Biologist in the Agricultural Experiment Station.

A. B., Dartmouth, 1899; Ph. D., Michigan, 1902

CHARLES BARTO BROWN, Professor of Civil Engineering.

Ph. B., Yale, 1894; C. E., 1896

WALLACE CRAIG, Professor of Philosophy.

B. S., Illinois, 1898; M. S., 1901; Ph. D., Chicago, 1908

GARRETT WILLIAM THOMPSON, Professor of German.

A. B., Amherst, 1888; A. M., 1891; Ph. D., Pennsylvania, 1907

GUY ANDREW THOMPSON, Professor of English Literature.

A. B., Illinois, 1898, and Harvard, 1900; A. M., 1901; Ph. D., Chicago, 1912

WINDSOR PRATT DAGGETT, Professor of Public Speaking.

Ph. B., Brown, 1902

MINTIN ASBURY CHRYSLER, Professor of Biology.

B. A., Toronto, 1894; Ph. D., Chicago, 1904

JOHN MANVERS BRISCOE, Professor of Forestry.

M. F., Yale, 1909

LEON STEPHEN MERRILL, Dean of the College of Agriculture and Director of Agricultural Extension Service.

M. D., Bowdoin, 1889

*In government service. On leave of absence without pay

UNIVERSITY OF MAINE

GEORGE EDWARD SIMMONS, Professor of Agronomy.

B. S., Ohio Northern, 1902; M. S., 1905; B. Sc., Ohio State, 1909

GEORGE WARE STEPHENS, Professor of Economics and Sociology.

Ph. B., Iowa Wesleyan, 1904; M. A., Wisconsin, 1907; Ph. D., 1911

WILLIAM EDWARD BARROWS, Jr., Professor of Electrical Engineering.

B. S., Maine, 1902; E. E., 1908

BLISS S BROWN, Professor of Horticulture.

B. S., Michigan Agricultural College, 1903; M. S., California, 1911

EDITH MARION PATCH, Entomologist in the Agricultural Experiment Station.

B. S., Minnesota, 1901; M. S., Maine, 1910; Ph. D., Cornell, 1911

*FRANK MACY SURFACE, Biologist in the Agricultural Experiment Station.

A. B., Ohio State, 1904; A. M., 1905; Ph. D., Pennsylvania, 1907

LAMERT SEYMOUR CORBETT, Professor of Animal Industry.

B. Sc., Massachusetts Agricultural College, 1909; M. S., State University of Kentucky, 1913

ANDREW PAUL RAGGIO, Professor of Spanish and Italian.

B. A., Texas, 1896; A. M., Harvard, 1902; Ph. D., 1904

FRANCES ROWLAND FREEMAN, Professor of Home Economics.

B. Sc., Ohio State, 1910; M. Sc., 1911

†ROY FRANKLIN RICHARDSON, Professor of Education.

A. B., Kansas State Normal College, 1909; Ph. D., Clark, 1913

WILLIAM JORDAN SWEETSER, Professor of Mechanical Engineering.

S. B., Massachusetts Institute of Technology, 1901

HERMAN HERBERT HANSON, Chemist in the Agricultural Experiment Station.

B. S., Pennsylvania State College, 1902; M. S., Maine, 1906

CHARLES WILSON EASLEY, Professor of Chemistry.

A. B., Dickinson, 1897; A. M., 1890; Ph. D., Clark, 1908

WILLIAM AMBROSE JARRETT, Professor of Pharmacy.

Pharm. D., Massachusetts College of Pharmacy, 1913

CLARENCE WEBSTER PEABODY, Professor of Law.

A. B., Bowdoin, 1893; LL. B., Harvard, 1896

*In government service. On leave of absence without pay

†On leave of absence without pay

FACULTY

*WILLIAM JAMES YOUNG, Director of Athletics and Professor of Physical Culture.

B. P. E., International Y. M. C. A. College, 1907; M. D., Pennsylvania, 1911

†HORACE MEEK HICKAM, Professor of Military Science and Tactics.

Major, Signal Corps, Aviation Section, U. S. Army

FRANKLIN RUNYAN LANG, Professor of Military Science and Tactics.

Major, United States Army; A. B., Oskaloosa, 1894; LL. B., Detroit, 1904; A. M., Columbia, 1915; Ph. D., 1916; LL. M., 1917; Sc. D. (in Jurisprudence), New York University, 1917

LEON ELMER WOODMAN, Associate Professor of Physics.

A. B., Dartmouth, 1899; A. M., 1902; Ph. D., Columbia, 1910

JAMES ADRIAN GANNETT, Registrar.

B. S., Maine, 1908

‡ALBERT THEODORE CHILDS, Associate Professor of Electrical Engineering.

B. S., Worcester Polytechnic Institute, 1906; E. E., 1908

*HARLEY RICHARD WILLARD, Associate Professor of Mathematics.

A. B., Dartmouth, 1899; A. M., 1902, and Yale, 1910; Ph. D., 1912

ARCHER LEWIS GROVER, Associate Professor of Drawing.

B. M. E., Maine, 1889; B. S., 1902

ALICE MIDDLETON BORING, Associate Professor of Zoology.

A. B., Bryn Mawr, 1904; A. M., 1905; Ph. D., 1910

JAMES MCCLUER MATTHEWS, Associate Professor of Economics and Sociology.

A. B., Park, 1903; A. M., Harvard, 1913

DANIEL WILSON PEARCE, Associate Professor of Education.

A. B., Indiana, 1910; A. M., 1912

CARL HENRY LEKBERG, Associate Professor of Mechanical Engineering.

B. S., Maine, 1907

1918

EMBERT HIRAM SPRAGUE, Associate Professor of Civil Engineering.

B. S., Dartmouth, 1900

*In government service. On leave of absence without pay

†Called to active service, June, 1917

‡On leave of absence without pay, September 1, 1917, to September 1, 1918

UNIVERSITY OF MAINE

CARLETON WHIDDEN EATON, Associate Professor of Forestry.

A. B., Bowdoin, 1910; M. F., Yale, 1912

HAROLD SCOTT OSLER, Associate Professor of Agronomy.

B. S., Muskingum, 1909, and Michigan Agricultural College, 1913

*LOWELL JACOB REED, Associate Professor of Mathematics.

B. S., Maine, 1907; M. S., 1912; Ph. D., Pennsylvania, 1915

BARTLETT BROOKS, Assistant Professor of Law.

A. B., Harvard, 1899; LL. B., 1902

HARRY NEWTON CONSER, Assistant Professor of Botany.

B. S., Central Pennsylvania College, 1883; M. S., 1886; A. M., Harvard, 1908

ALPHEUS CROSBY LYON, Assistant Professor of Civil Engineering.

B. S., Maine, 1902; S. B., Massachusetts Institute of Technology, 1904; C. E., Maine, 1913

*HARRY WOODBURY SMITH, Assistant Professor of Bacteriology.

B. S., Maine, 1909

*RALPH MAYNARD HOLMES, Assistant Professor of Physics.

B. A., Maine, 1911; M. A., Wesleyan, 1913

FRANÇOIS JOSEPH KUENY, Assistant Professor of French.

B. ès L., University of Paris, 1897; L. ès L., Besançon, 1901

HERBERT HANNIBAL HILLEGAS, Assistant Professor of Electrical Engineering.

B. S., Delaware, 1914

†WILLIAM SAMUEL KREBS, Assistant Professor of Economics and Sociology.

A. B., Harvard, 1907; A. M., 1913

WARREN WHITTEMORE REED, Assistant Professor of English.

A. B., Harvard, 1907; A. M., 1913

*HERMAN PITTEE SWEETSER, Assistant Professor of Horticulture.

B. S., Maine, 1910

HARRY GILBERT MITCHELL, Assistant Professor of Chemistry.

B. S., Dartmouth, 1910; A. M., Columbia, 1914

*In government service. On leave of absence without pay

†On leave of absence without pay

FACULTY

*ALBERT AMES WHITMORE, Assistant Professor of History.

B. S., Maine, 1906

DOROTHEA BEACH, Assistant Professor of Home Economics.

B. S., Simmons, 1917

LESTER FRANK WEEKS, Assistant Professor of Chemistry.

B. S., Colby, 1915

CHARLES HOWARD BATCHELDER, Assistant Professor of Zoology.

A. B., New Hampshire State College, 1913; M. S., 1915

BERTRAND FRENCH BRANN, Assistant Professor of Chemistry.

B. S., Maine, 1909; M. S., 1911

HAROLD WALTER LEAVITT, Assistant Professor of Civil Engineering.

B. S., Maine, 1915

MYRON OWEN TRIPP, Assistant Professor of Mathematics.

A. B., Indiana, 1901; Ph. D., Columbia, 1909

ADELBERT WELLS SPRAGUE, Director of Music.

B. S., Maine, 1905; A. M., Harvard, 1907

MAURICE DANIEL JONES, Farm Management Demonstrator.

B. S., Maine, 1912

WILLIAM COLLINS MONAHAN, Extension Instructor in Poultry Work.

B. S., Maine, 1914

PAUL WHEELER MONOHON, Assistant County Agent Leader.

B. S., Maine, 1914

HAROLD JOSEPH SHAW, County Agricultural Agent, Sagadahoc and Androscoggin Counties.

CLARENCE ALBERT DAY, County Agricultural Agent, Washington County.

ARTHUR LOWELL DEERING, County Agricultural Agent, Kennebec County.

B. S., Maine, 1912

GEORGE ALBERT YEATON, County Agricultural Agent, Oxford County.

ALBERT KINSMAN GARDNER, County Agricultural Agent, Franklin County.

B. S., Maine, 1910

GEORGE NEWTON WORDEN, County Agricultural Agent, Hancock County.

B. S., Maine, 1913

*On leave of absence without pay

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- JOSEPH HENRY BODWELL, County Agricultural Agent, Piscataquis County.
B. S., Maine, 1915
- ROGER LOCKE GOWELL, County Agricultural Agent, Knox County.
B. S., Maine, 1916
- ROBERT MARKS STILES, County Agricultural Agent, Somerset County.
- WILLIAM MELVIN GRAY, County Agricultural Agent, York County.
B. S., Maine, 1912
- RALPH LORD SMITH, County Agricultural Agent, Cumberland, County.
- RICHARD BOULSBY DODGE, County Agricultural Agent, Penobscot County.
B. S., Maine, 1917
- JOHN LESLIE SCRIBNER, County Agricultural Agent, Aroostook County.
B. S., Maine, 1917
- NORMAN SYLVESTER DONAHUE, County Agricultural Agent, Waldo County.
B. S., Maine, 1915
- RALPH PIKE MITCHELL, State Leader Boys' and Girls' Agricultural Club
Work.
- CHARLES EDWARD CROSSLAND, Assistant Leader Boys' Agricultural Club
Work.
B. S., Maine, 1917
- ALFREDA ELLIS, Assistant Leader Girls' Agricultural Club Work.
B. S., Maine, 1917
- CATHARINE NORTON PLATTS, Extension Instructor in Home Economics
and State Leader Emergency Home Demonstration Project.
S. B., Simmons, 1911
- KATHRYN TAYLOR GORDON, Extension Instructor in Home Economics.
S. B., Simmons, 1915
- EDWARD WATTS MORTON, Extension Instructor in Dairying.
B. S., Maine, 1909
- RAYMOND HENRY FOGLER, Secretary to the Director of Extension Service.
B. S., Maine, 1915; M. S., Princeton, 1917

Emergency Extension Staff

- HARRY WOODBURY SMITH, Assistant County Agent Leader.
B. S., Maine, 1909

FACULTY

BLYNNE ALLEN, Emergency District Demonstration Agent, Androscoggin, Kennebec, and Somerset Counties.

ROY SAWTELLE BACON, Emergency District Demonstration Agent, Cumberland, Oxford, and York Counties.

B. S., Maine, 1906

CHARLES LEON BLACKMAN, Assistant Emergency Demonstration Agent, Penobscot County.

B. S., Maine, 1916; M. S., Iowa State, 1917

SYDNEY GURNEY EVANS, Emergency County Agent, Lincoln County.

JOHN HARVEY PHILBRICK, Assistant Emergency Demonstration Agent.

B. S., Maine, 1915

RUBY IRENE BARKER, Emergency Home Demonstration Agent, Somerset, Waldo, and Knox Counties.

LUCY THOMPSON DODGE, Emergency Home Demonstration Agent, Penobscot and Piscataquis Counties.

EDITH FLINT, Emergency Home Demonstration Agent, Franklin, Androscoggin, and Oxford Counties.

MARION ESTABROOKE HUNT, Emergency Home Demonstration Agent and State Wide Worker.

B. S., Maine, 1912

GRACE MAY NEAGLE, Urban Emergency Home Demonstration Agent, Portland.

EUNICE HALE NILES, Emergency Home Demonstration Agent, Aroostook County.

ERMA LUCILE ROYAL, Emergency Home Demonstration Agent, Kennebec, Sagadahoc, and Lincoln Counties.

ALICE BLANCHE WEBSTER, Emergency Home Demonstration Agent, Washington and Hancock Counties.

S. B., Simmons, 1911

EVERETT WILLARD DAVEE, Instructor in Wood and Iron Work.

ERNEST CONANT CHESWELL, Instructor in Electrical Engineering.

ROYDON LINDSAY HAMMOND, Seed Analyst and Photographer in the Agricultural Experiment Station.

ELMER ROBERT TOBEY, Assistant Chemist in the Maine Agricultural Experiment Station.

B. S., Maine, 1911; M. S., 1917

UNIVERSITY OF MAINE

- *JOHN RICE MINER, Computer in the Agricultural Experiment Station.
A. B., Michigan, 1913
- JACOB ZINN, Assistant Biologist in the Agricultural Experiment Station.
Agr. D., Hochschule für Bodenkultur, 1914
- MICHAEL SHAPOVALOV, Assistant Pathologist in the Maine Agricultural
Experiment Station and Collaborator with the U. S. Department of
Agriculture.
M. S., Maine, 1913
- GLEN BLAINE RAMSEY, Assistant Plant Pathologist in the Agricultural
Experiment Station and Collaborator with the U. S. Department of
Agriculture.
A. B., Indiana, 1913; A. M., 1914
- MARGARET JUNE KELLEY, Instructor in German.
B. A., Maine, 1912; M. A., 1916
- RICHARD THEODORE MULLER, Instructor in Horticulture.
B. S., Cornell, 1916
- OSCAR MILTON WILBUR, Instructor in Animal Industry.
B. S., Maine, 1915
- LLEWELLYN MORSE DORSEY, Instructor in Animal Industry.
B. S., Maine, 1916
- JOHN HOWARD PERRY, Assistant Chemist in the Agricultural Experiment
Station.
B. S., Maine, 1917
- HAROLD LOUIS KING, Assistant Chemist in the Maine Agricultural Experi-
ment Station.
B. S., Maine, 1917
- JOHN WHITMORE GOWAN, Assistant Biologist in the Maine Agricultural
Experiment Station.
B. S., Maine, 1914; M. S., 1915; Ph. D., Columbia, 1917
- SILVIA PARKER, Assistant Biologist in the Maine Agricultural Experiment
Station.
B. A., Mt. Holyoke, 1917
- JAMES APPLEBY DIBBLEE, Instructor in English.

*In government service. On leave of absence without pay

FACULTY

MAYNARD FRED JORDAN, Instructor in Mathematics.

B. A., Maine, 1916

FRANCIS THOMAS McCABE, Instructor in Mechanical Drawing.

JOAQUÍN MENDEZ-RIVAS, Instructor in Spanish.

Bachiller, Escuela Nacional Preparatoria de la Cuidad de México,
1909; Abogado, Escuela Libre de Derecho de la Cuidad de México,
1913

GEORGE ALVIN SCOTT, Instructor in Physics.

B. S., Wisconsin, 1902

QUENTIN WEAVER STAUFFER, Instructor in Mathematics.

Ph. B., Muhlenberg, 1913

WALTER CHRISTOPHER STONE, Instructor in Chemistry.

B. S., Maine, 1913

ROY FRANK THOMAS, Instructor in Agriculture.

B. S., Maine, 1917

SAMUEL VASCONCELOS, Instructor in Spanish.

Bachiller, Escuela Nacional Preparatoria de la Cuidad de México,
1910; Abogado, Escuela Nacional de Jurisprudencia de México, 1916

MAY ELLA TAFT, Acting Librarian.

B. A., Wellesley, 1908; S. B., Simmons, 1912

ETHEL GERTRUDE WIGMORE, Assistant in the Library.

A. B., Acadia, 1914

MADELINE MOORE, Assistant in the Library.

CHARLES LINDSAY STEPHENSON, Assistant in Military Science and Tactics.

B. S., Maine, 1917

HARRY ROY PERKINS, Shop Assistant in Mechanical Engineering.

EDWARD MURRAY, Assistant in Pharmacy.

PAUL DECOSTA BRAY, Assistant in Chemistry.

B. S., Maine, 1914

ELWOOD IRVIN CLAPP, Assistant in Chemistry.

B. S., Maine, 1917

CHARLES HARRY WHITE, Scientific Aid in the Agricultural Experiment
Station.

Ph. C., Maine, 1897

UNIVERSITY OF MAINE

WALTER EDSON CURTIS, Scientific Aid in the Agricultural Experiment Station.

LUCILIUS ALONZO EMERY, Lecturer on Roman and Probate Law.

A. B., Bowdoin College, 1861; A. M., 1864; LL. D., 1898

LOUIS CARVER SOUTHARD, Lecturer on Medico-Legal Relations.

B. S., Maine, 1875; M. S., 1892; LL. D., 1904

EDWARD HARWARD BLAKE, Lecturer on Admiralty.

LL. B., Albany Law School, 1878; LL. D., Maine, 1910

ISAAC WATSON DYER, Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations.

A. B., Bowdoin, 1878

JOHN ROGERS MASON, Lecturer in Bankruptcy Law.

A. B., Harvard, 1869; A. M., LL. B., 1872

WILLIAM BRIDGHAM PEIRCE, Lecturer on Common Law Pleading and Maine Practice.

B. M. E., Maine, 1890

HENRY BURT MONTAGUE, Lecturer on Practice and History of Law.

LL. B., Cornell, 1895; LL. M., Maine, 1910

LAWRENCE VIVIAN JONES, Lecturer on Forestry Law.

LL. B., Maine, 1910

WILLIAM DAVID FULLER, Lecturer on School Administration.

Ph. B., Wisconsin, 1910; A. M., Maine, 1917

FACULTY

COMMITTEES OF THE FACULTY

ADMINISTRATION—The President and Deans

ATHLETICS—Grover, Gannett, Lyon, L. S. Merrill, Peabody, E. H. Sprague

AUDITING—L. H. Merrill, B. S. Brown, Lekberg, Grover

CHAPEL—Barrows, Matthews, A. W. Sprague, Woodman

CHRISTIAN ASSOCIATION—Matthews, Daggett, Lekberg

EMPLOYMENT—Gannett, Simons, Beach

GRADUATE STUDY—Chase, Colvin, Corbett, Craig, Easley, L. H. Merrill,
Morse, Raggio, Segall, Stephens, Walz, Woodman

HEALTH—Stephens, Freeman, Jarrett, Russell

HONORS—Chrysler, B. S. Brown, Briscoe, Lyon, Walz

LIBRARY—Colvin, Osler, Pearce, Russell, Sweetser

MILITARY AFFAIRS—Lang, Boardman, Eaton, Weston

RULES—Simmons, Boring, Conser, Kueny, Raggio

SCHEDULE—Weston, Gannett, L. J. Reed, the Deans

SOCIAL AFFAIRS—Huddilston, Colvin, Corbett, Freeman, Segall

STUDENT AFFAIRS (NON-ATHLETIC)—C. B. Brown, Chairman

Dramatics—Daggett, C. B. Brown, Weston

Music—A. W. Sprague, G. W. Thompson, Matthews

Public Speaking—Daggett, Eaton, G. A. Thompson

Student Publications—Lekberg, Brooks, Conser, Fogler

Miscellaneous—C. B. Brown, Craig, Hillegass

UNIVERSITY PUBLICATIONS—Stevens, Boardman, L. S. Merrill, Woods

General Information

HISTORY

The University of Maine is a part of the public educational system of the State. It was established as a result of the Morrill Act approved by President Lincoln, July 2, 1862. The State of Maine accepted the conditions of this act in 1863. In 1865 the State created a corporation to administer the affairs of the college. The original name of the institution was the State College of Agriculture and the Mechanical Arts. The name was changed to the University of Maine in 1897.

The first Board of Trustees was composed of 16 members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Board members. At the present time seven members of the Board are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association.

The institution opened September 21, 1868, with a class of 12 members and a faculty of two teachers. By 1871 four curricula had been arranged,—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences.

The Maine Agricultural Experiment Station was established as a division of the University by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station which had been established in 1885.

The College of Law was opened in 1898. It is an integral part of the institution but occupies quarters at the corner of Union and Second streets in Bangor.

Graduate instruction has been given by various departments for many years. The first Master's degree was conferred in 1881. There is no

BUILDINGS

provision for graduate work in advance of that required for the Master's degrees.

Beginning with 1902, a Summer Term has been held annually, first of five weeks but now of six. It is designed for teachers in secondary schools and for college students who desire to take advantage of its opportunities, and it also gives some courses for those who seek an opportunity to make up entrance credits. The departments usually offering courses are Chemistry, Economics and Sociology, Education, English, French, German, History, Latin, Mathematics and Astronomy, Physics, and Spanish and Italian.

The university is coeducational, women having been admitted since 1872, in compliance with special legal enactment.

LOCATION

The university, with the exception of the College of Law and three farms, is located in Orono, an attractive town, of 3,500 population, with good schools and four churches. The campus of 370 acres borders the Stillwater River, a branch of the Penobscot, and is of great beauty. The College of Law is in Bangor.

Orono is on the main line of the Maine Central Railroad, eight miles east of Bangor, half way between Kittery, the most southerly town in the State on the Maine Central Railroad, and Fort Kent, the most northerly town in the State on the Bangor and Aroostook Railroad. It is not far from the center of population of the State. In addition to steam railroad connection, there is half-hour trolley service to Bangor, nine miles, and Old Town, three miles from the campus. Bangor is the third city of the State in population and an important business center. The location of the university gives students who care to do so an opportunity to take advantage of its social, religious, and other advantages. Old Town is a prosperous manufacturing city with about 7,000 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

BALENTINE HALL.—The Legislature of 1913 made an appropriation for the erection of one wing of a women's dormitory. This was completed September 1, 1914. The Legislature of 1915 made an appropriation for completing the building. The name was given in honor of

UNIVERSITY OF MAINE

Elizabeth Abbott Balentine, Secretary and Registrar of the University from 1895 to 1913. It contains accommodations for 110 women. The entire building was ready for occupancy September 1, 1916.

HANNIBAL HAMLIN HALL.—This is a men's dormitory completed in 1911. It contains four stories and a concrete basement. It was named for the Honorable Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees. It will accommodate 156 students.

MOUNT VERNON HOUSE.—This a wooden building, remodeled in 1898, and is a dormitory for women. It is a three story building and will accommodate 36 students.

OAK HALL.—This building was named for the Honorable Lyndon Oak, of Garland, a long time member and president of the Board of Trustees. It is a four story building erected in 1871 and has 48 rooms for students.

UNIVERSITY INN.—This is a wooden building, located in the village of Orono, which the University has leased for a term of years. It is occupied chiefly by instructors and has accommodations for fifty persons.

ALUMNI HALL.—This building was erected in 1900 and was given its name because funds required for its erection were subscribed by the alumni of the university. It contains the gymnasium, chapel, and administrative offices.

AUBERT HALL.—This a four story building including a high basement. It was named in honor of the late Alfred Bellamy Aubert, Professor of Chemistry from 1874 to 1910. It is used by the Departments of Chemistry, Physics, and Pharmacy.

COBURN HALL.—This building contains the Department of Biology and the museum and has recitation rooms for the Departments of History and Economics and Sociology. It was named for ex-Governor Abner Coburn, of Skowhegan, a former president of the Board of Trustees, and the chief individual benefactor of the University.

ESTABROOKE HALL.—This building is used for the Departments of English and Public Speaking, and was named for the late Horace M. Estabrooke, Professor of English from 1891 to 1908. It contains four recitation rooms, rooms for consultation purposes, and offices for the members of the departments.

BUILDINGS

FERNALD HALL.—This is the oldest building on the campus and was erected for the Department of Chemistry. It now contains the Departments of French, Spanish and Italian, Education, Mathematics, and the University Store. It was named in honor of ex-President Merritt C. Fernald.

HOLMES HALL.—This building contains the offices and laboratories of the Maine Agricultural Experiment Station. It is a two story building in addition to a basement. It was named for Dr. Ezekiel Holmes, of Winthrop.

LIBRARY BUILDING.—The Library Building is of stone, two stories above a basement and surmounted by a dome. For its erection and furnishing, Mr. Andrew Carnegie gave \$55,000, and the Hallowell Granite Works furnished the granite at a price that was equivalent to a gift of several thousand dollars. The stacks, which are in the rear of the main building, contain shelf room for 60,000 volumes.

LORD HALL.—This building was erected for the Departments of Electrical Engineering and Mechanical Engineering. It is two stories in height and contains recitation rooms, laboratories, shops, drawing rooms, and offices for the members of these departments. It was named for the Honorable Henry Lord, of Bangor, a former president of the Board of Trustees.

STEWART HALL.—This building is situated in Bangor and contains offices and recitation rooms of the College of Law. It is three stories in height and was named for Honorable D. D. Stewart, of St. Albans, Maine, who has been a generous benefactor of this college.

WINGATE HALL.—This building contains three stories and a basement. It is used by the Departments of Civil Engineering and Mechanics and Drawing, and includes recitation rooms and offices for the Departments of Latin and Philosophy.

WINSLOW HALL.—This is a four story building including the basement. It contains offices, laboratories, and recitation rooms for the various departments of the College of Agriculture. It was named in honor of Honorable Edward B. Winslow, of Portland, a former president of the Board of Trustees. In the rear of this building is located the stock judging pavilion, which is an octagonal structure, having a seating capacity of 600.

DAIRY BUILDING.—This building contains various rooms appropriate for the Department of Dairy Husbandry. It is supplied with neces-

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sary appliances for teaching methods of handling milk, cream, butter, and cheese.

FARM BUILDINGS.—These comprise two large dairy barns, a horse barn, a hay storage barn, two tool houses, and a piggery. The farm of the university is composed of parcels of land aggregating 473 acres, of which 120 acres are under cultivation.

HORTICULTURAL BUILDING.—This includes a set of greenhouses east of Holmes Hall and furnishes opportunity for demonstration of the practical culture of flowers and vegetables under glass.

INFIRMARY.—This building is used in caring for cases of infectious diseases that may appear among the students. It is located in the rear of Hannibal Hamlin Hall.

OBSERVATORY.—The astronomical observatory stands on a slight elevation east of Alumni Hall. It contains equipment for work in descriptive and practical astronomy.

POULTRY PLANT.—The part of the plant that belongs to the College of Agriculture consists of a two and one half story building to which are attached brooder houses. The plant which belongs to the Agricultural Experiment Station contains an incubator house with tenement above, two poultry houses, a two story house, a building containing a hospital for hens, and rooms for digestion experiments.

ATHLETIC FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northern end of the campus. It contains a quarter-mile cinder track, with a 220-yard straightaway, and is graded and laid out for football, baseball, and track and field athletics. It contains a grandstand with a seating capacity of 2,100. There is also an out-door board running track 390 feet long by 12 feet wide.

CENTRAL HEATING PLANT.—The Central Heating Plant is located on low ground so that the buildings drain by gravity to the plant. It contains four 150 h. p. boilers, two Worthington duplex return pumps, and scales for weighing coal.

FRATERNITY HOUSES.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Phi Gamma Delta, Phi Kappa Sigma, Sigma Alpha Epsilon, Theta Chi, Sigma Nu, and Phi Epsilon Pi, and the Phi Eta Kappa Society have houses on the campus; the local chapter of

LIBRARIES

Lambda Chi Alpha owns a house adjoining the campus on College Street, and the local chapters of Alpha Tau Omega and Sigma Chi own houses on North Main Street. These houses accommodate from 25 to 35 students each.

POWER HOUSE.—This building is located north of Alumni Hall and contains five boilers, three engines, and two dynamos with operating switchboard.

PRINT SHOP.—The University Press is located in a wooden building north of Aubert Hall. It contains a modern outfit for the printing required by the university.

OTHER BUILDINGS.—In addition to the buildings already described, there are several others devoted to various purposes. Among these are the President's house and five residences occupied by members of the faculty.

THE LIBRARIES

The university libraries contain (June 30, 1916) about 61,400 volumes, of which about 51,500 are in the general library, 4,600 in the Agricultural Experiment Station Library, and 5,300 in the law library. In addition, there are deposited in the general library, where they are available for circulation, over seven hundred volumes from the mathematical library of President R. J. Aley, over five hundred volumes, relating chiefly to English literature and philology, from the library of the late Professor H. M. Estabrooke, and over a hundred volumes belonging to the Christian Association and the Menorah Society. The growth for the last ten years has averaged over three thousand volumes annually.

The general library is a good working collection. It has been acquired largely by purchase, the books bought having been selected by heads of departments to meet the needs of students and faculty. It includes a large and useful collection of public documents of the United States and of the State of Maine and is a designated depository for government publications. The most valuable gift received from an individual is the horticultural library of the late Professor W. M. Munson, bequeathed by him to the university. The general library is open daily during the academic year from 8.00 a. m. to 5.30 p. m. and from 7.00 to 9.30 p. m., Saturday evenings, Sundays, and holidays excepted. It is open Sundays from 2.30 to 5.30 p. m., and holidays from 8.00 a. m. to 12.00 m.

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About 250 general, literary, scientific, and technical periodicals, American and foreign, are subscribed for by the general library and over 150 others are received as gifts. The current numbers of most of these are on file in the periodical room on the first floor of the library building, but the daily and weekly newspapers are in a newspaper room in the basement, and the technical engineering journals are in the office of the Dean of the College of Technology where they are available for general use.

The Agricultural Experiment Station Library, with the exception of volumes needed for almost constant reference by members of the Station staff, is shelved with the general library and is available for consultation but not for general circulation. It contains many valuable sets of scientific journals. About 75 periodicals are subscribed for, and a considerable number of others are received in exchange for Station publications, current volumes being on file in Holmes Hall.

The law library occupies rooms in Stewart Hall and is for reference only. The former library was burned in the Bangor fire of 1911 and the present carefully selected collection has been gathered since that time. It includes complete sets of the reports of the United States and of all the New England and some other states, the English Reports and English Ruling Cases, and all the important reports and encyclopedias, together with an excellent collection of text books. The important law journals are received currently. The law library is open thruout the academic year during the same hours as the general library.

The libraries are classified by the Dewey decimal system, modified for certain classes. A card catalog in the general library shows books by author, subject, and title, and includes all volumes in the general, Agricultural Experiment Station, and law libraries, and also those in the Aley, Estabrook, Christian Association, and Menorah Society collection, but does not include cards for the publications of the United States Department of Agriculture and the agricultural experiment stations of the various states, as these are filed in a special catalog in the agriculture seminar. A separate catalog of the law library is maintained in addition in Stewart Hall.

About nine hundred volumes, withdrawn from the general library, are kept in Aubert Hall as a reference library for the Department of Physics, subject to recall at any time if needed for other use. Other departments borrow books required for current needs, subject to recall if needed elsewhere.

MUSEUM

Students may borrow three volumes at a time from the general library, to be retained three weeks; if more are desired or if need exists to retain them for a longer period, application should be made to the Librarian. A fine of two cents a day is collected for overdue books. Reference books do not circulate and special regulations are made for books reserved at the request of instructors. Unbound periodicals may be borrowed over night upon application to the desk assistant. Members of the faculty may borrow any reasonable number of volumes without time limit, but all books must be returned nine days before Commencement. Books will be loaned to other libraries, to schools, and to residents of the State when it can be done without interference with local needs, the borrower paying transportation charges in both directions.

MUSEUM OF NATURAL HISTORY

MINTIN ASBURY CHRYSLER

Curator of the Botanical and Zoological Collections

LUCIUS HERBERT MERRILL

Curator of the Geological Collections

The museum occupies the wing of Coburn Hall and adjoining rooms in the main part of the building.

ZOOLOGICAL COLLECTIONS.—These collections occupy the lower floor of the wing of Coburn Hall. Some of the alcoholic and formalin material is placed in wall cases in the biological laboratories. The collections consist of a number of the larger mammals of the State; a small set of exotic mammals; a more complete working collection of native birds, birds' nests, and eggs; an illustrative collection of the other groups of vertebrates; a rather large collection of the shells of native and exotic molluscs; and illustrative collections of the other groups, dry, alcoholic, and prepared as microscopic objects.

BOTANICAL COLLECTIONS.—These collections are situated in rooms on the second and third floors. The herbarium includes several collections of considerable value, the most important of which is the one made by the late Rev. Joseph Blake and presented to the university by Mr. Jonathan G. Clark, of Bangor. It contains more than 7,000 species of both flowering and flowerless plants, and represents more especially the

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flora of Maine and other New England States, but includes many forms from the Western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the university, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algæ of the Maine Coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticæ, Cummings and Seymour's North American Lichens, and a collection of economic seeds prepared by the United States Department of Agriculture.

Collections other than the herbarium include exhibits illustrating the manufacture of paper and cocoa, the wood and bark features of the timber trees of Maine, conifers mounted in jars, plants used in pharmacy, commercial fibres, and artificial silk. A valuable collection of fossil plants was presented by Professor Harvey.

GEOLOGICAL COLLECTIONS.—These collections, occupying the upper floor of Coburn Hall, are accessible daily during the college year, except on Saturdays and Sundays. They include the more important fragmental, crystalline, and volcanic rocks; a collection of building stones; a series designed to illustrate the rocks of the State; a general collection of more common minerals; a collection of economic minerals furnished by the United States National Museum; an educational series of rocks furnished by the United States Geological Survey; and a small collection of plant and animal fossils.

The part of the museum illustrating the mineral resources of the State may be made of great value, both from the scientific and economic standpoint. Students and others residing in the State are urged to contribute specimens from their home localities.

ART COLLECTION

This collection consists of photographs, prints, engravings, polychrome reproductions, and plaster casts. Many of the large reproductions are framed and the entire collection has found a fitting home in the Library Building, the gallery of which is well adapted to the exhibition of many of the plaster-cast reliefs and the larger framed works. The collection is distributed on the first and second floors, in the lec-

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ture room, and a seminar room. In the latter is a specially constructed cabinet for mounted photographs.

The entire collection numbers upwards of 4,000 reproductions of various sorts covering the fields of Classical and Renaissance architecture, sculpture, and painting. The illustrations for the Greek, Florentine, and Venetian schools are particularly representative. For much of the most important work the photographs are supplemented by lantern slides.

The university possesses many of the famous polychrome prints published by the Arundel Society. These and many other colored reproductions covering nearly all the great masters of Italian painting have been framed; and in the case of the *Madonna della sedia* and the *Sistine Madonna* the reproductions were imported in the frames which are stucco copies of the originals in Dresden and Florence.

The lecture room in the library building contains examples of the work of the chief Florentine and Umbrian masters of the 14th and 15th centuries, arranged on the walls in historical sequence. The gallery of the second floor is devoted to masters of the High Renaissance.

For the study of Greek and Roman antiquity the Departments of Greek and Latin have a large collection of photographs and lantern slides.

ORGANIZATIONS

AGRICULTURAL CLUB.—This organization is composed of students taking agricultural courses. Meetings are held thruout the college year, at which important agricultural topics are discussed by members of the club, and also by prominent speakers from this and other states.

AMERICAN CHEMICAL SOCIETY.—The Maine Section of the American Chemical Society has its headquarters at Orono. Some students in the Department of Chemistry are members, and all are welcome to its meetings.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.—This is an organization for the promotion of the student's interest in electrical engineering work, and to keep him in touch with the latest developments in this branch of engineering activity. Membership in the branch is extended to members of the Electrical Engineering faculty, students pursuing the Electrical Engineering curriculum, and to members and associate members of the Institute.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—A regularly organized branch of this society holds regular meetings for the presentation

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and discussion of engineering papers by members and by visiting engineers.

UNIVERSITY OF MAINE SOCIETY OF CIVIL ENGINEERS.—This society is composed of the students who are enrolled in the Curriculum in Civil Engineering. The object of the society is to investigate by reading and discussion the various engineering topics of the day. Monthly lectures are given under the direction of the society by members of the faculties of this and other institutions and by practicing engineers. The affairs of the society are controlled by the students under the advice of the department.

CERCLE FRANÇAIS.—The object of the Cercle Français is to cultivate the spoken French language and arouse and stimulate an interest in the intellectual life of France. The work is carried on in French. Papers are read and discussed and addresses delivered by the members. Plays are studied with a view toward production in French. The Cercle meets once in two weeks.

DEUTSCHER VEREIN.—This society is composed of teachers and students. Its purpose is to stimulate interest in the various phases of German life and literature and afford practice in speaking German. The number of members is limited. Meetings are held every three weeks during the academic year.

FORESTRY CLUB.—All students majoring in the curriculum in Forestry are eligible for membership in the Forestry Club. The purpose of the club is to give an opportunity for presenting informal discussions and technical papers on forestry subjects, and to promote cooperation and general good fellowship among the forestry students. The meetings are held monthly.

MAINE MASQUE.—This is a dramatic club which aims to make a practical study of the acted drama, and to present each year before the public one or more representative plays. Membership is determined by competitive trials to which all men undergraduates are eligible.

MENORAH ASSOCIATION.—An intercollegiate organization for the study and advancement of Jewish culture and ideals.

SPEAKERS' CLUB.—A local honorary society, open to all students who acquire a sufficiently high standing in public debate and oratory. The object of the club is to promote interest in public speaking at the uni-

ORGANIZATIONS

versity. It is in active cooperation with the Department of Public Speaking, and superintends some of the minor activities in oratory and debate.

CHRISTIAN ASSOCIATION.—The Christian Association, composed of men students, has for its object the promotion of Christian fellowship and aggressive Christian work. Religious services are held in the chapel every Sunday and classes for the study of the Bible are conducted during the week.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION.—This is an organization for religious work composed of women students.

ALPHA CHI SIGMA.—Alpha Chi Sigma is a professional fraternity with chapters in various American colleges and universities. The members are elected from those whose major work is in the Department of Chemistry.

ALPHA ZETA.—The Maine chapter of Alpha Zeta, the national agricultural fraternity, was organized at the university in 1905. Chapters exist in twenty four other universities. Membership is honorary and is restricted to students attaining high class standing or to graduates who have shown marked ability along the lines of agricultural study and research.

PHI KAPPA PHI.—The Phi Kappa Phi is an honor society. Early in the fall semester of the senior year the seven members of the class having the highest standing are elected members, and during the spring semester the ten next highest may be elected, two of whom are from the College of Law.

SIGMA DELTA CHI.—This is an honor fraternity open to sophomores, juniors, and seniors who have shown unusual ability in the various courses in journalism, and who propose to enter upon journalism as a profession.

TAU BETA PI.—Tau Beta Pi is an honor fraternity for engineers and has chapters in leading universities and technical schools. Elections are made from those juniors and seniors in engineering who have shown high mental and moral qualifications.

UNIVERSITY BAND.—A military and concert organization attached to the Cadet Corps. It is officered by students appointed by the Military

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department, and rehearsals are conducted by the director of music as regular class work, for which the men receive credit. The band plays for various university functions and games and makes concert trips to nearby cities and towns.

UNIVERSITY CHORUS AND ORCHESTRA.—These bodies are organized from students, faculty, and outside assisting talent, and are conducted by the director of music. A varied repertoire of classic and lighter numbers are studied and performed at concerts and other occasions. Chorus members are admitted to the Maine Festival Chorus, and orchestra members of talent and proper training are given consideration whenever vacancies occur in the Bangor Symphony Orchestra, a semi-professional organization.

MUSICAL CLUBS.—Glee and mandolin clubs are maintained by both men and women students and concert trips are taken at intervals during the college year.

UNIVERSITY PUBLICATIONS

ANNUAL REPORT.—The report includes an account of the general affairs and interests of the university for the year.

UNIVERSITY OF MAINE STUDIES.—These are occasional publications containing reports of investigations or researches made by university officers or alumni.

MAINE BULLETIN.—This is a publication issued monthly during the academic year, to give information to the alumni and the general public.

ANNUAL REPORT OF THE AGRICULTURAL EXPERIMENT STATION AND THE AGRICULTURAL EXPERIMENT STATION BULLETINS.—These give complete results of the work of investigation of the station. The Bulletins and Official Inspections are sent free on request to any resident of Maine.

OFFICIAL INSPECTIONS.—These are published by the Agricultural Experiment Station, and contain the result of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides, and insecticides.

MAINE CAMPUS.—This is a journal published weekly during the academic year by an association of the students.

UNIVERSITY PUBLICATIONS

PRISM.—The Prism is an illustrated annual, published by the junior class.

PRACTICAL HUSBANDRY.—This is a monthly magazine published under the direction of the Agricultural Club. It is devoted to practical and technical agriculture.

MAINE LAW REVIEW.—This is a magazine published under the direction of the students of the College of Law. It is devoted to a discussion of law cases and other current legal problems.

TECHNOLOGY EXPERIMENT STATION BULLETINS.—These are published monthly, and contain the results of the researches made in the engineering laboratories.

PUBLIC WORSHIP

A short assembly is held in the chapel every day except Saturday and Sunday. All undergraduate students are required to be present. Students receive a cordial welcome at all services in the churches of Orono. Voluntary religious services are held each week under the direction of the Christian Association and the Young Women's Christian Association.

STUDENT REGULATIONS

It is assumed that all students entering the university are willing to subscribe to the following: *A student is expected to show both within and without the university respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens and gentlemen.*

Special information in regard to rules and regulations may be obtained from the Registrar.

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of eighteen hours in the College of Arts and Sciences, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Agriculture and the College of Technology. The registration in the College of Law is a prescribed curriculum. In the application of this rule, two or three hours of laboratory work count as one hour.

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Each student is expected to be present at every college exercise for which he is registered, including each chapel exercise.

SCHOLARSHIP HONORS

Scholarship honors are awarded to students who attain an average grade of B, or above, thruout their course. The names of students winning these honors are printed in the catalog.

DEGREES

BACHELORS' DEGREES

The degree of Bachelor of Arts (B. A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences.

The degree of Bachelor of Science (B. S.) in the curriculum pursued is conferred upon students who complete the prescribed work of four years in the Colleges of Agriculture or Technology.

The degree of Bachelor of Pedagogy (B. Pd.) is conferred upon students in the College of Arts and Sciences who have completed a course in an approved high school, a course in a normal school, and two years under prescribed conditions at the university.

The degree of Bachelor of Laws (LL. B.) is conferred upon students who complete the prescribed work in the College of Law.

The degree of Graduate in Pharmacy (Ph. G.) is conferred upon students who complete the two-year Pharmacy Curriculum.

The entrance requirements for this curriculum are being raised gradually from two years of high school work and will be a complete high school course, by 1919. As soon as proper courses can be provided, a three-year Curriculum in Pharmacy will be established, leading to the degree of Pharmaceutical Chemist (Ph. C.) requiring for entrance the completion of a four years high school course.

A minimum residence of one year is required for the attainment of any bachelor's degree.

ADVANCED DEGREES

Graduate students, whether candidates for a degree or not, are required to register at the office of the university at the beginning of each

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semester or summer term. They must have their course of study approved by the Committee on Graduate Study at the beginning of their work. Those entering the university after that date must obtain the consent of the Committee on Graduate Study before they can count a full year's work.

Each candidate for the master's degree shall report before registering at the beginning of each semester or the summer term to the chairman of the committee or to some member representing a field of work nearly related to his own. Candidates for the degree of Master of Arts, Master of Science, or Master of Laws must have received the corresponding bachelor's degree from this institution or from one granting a fully equivalent degree.

Candidates who are graduates of other institutions are required to present at registration credentials covering the courses pursued and the standing attained.

At least one year must elapse between the conferring of the bachelor's and the master's degree.

No work done before the recommending of the bachelor's degree shall be counted towards the master's degree.

The candidate shall devote at least one year to graduate resident study and shall complete work amounting to fifteen hours per week thruout the college year.

A registration fee of \$5 is charged, and an additional fee of \$15 for examinations and diploma is payable upon the completion of the work. One registration fee only is required of graduate students.

The curriculum shall include work in one major department or subject in which the candidate has already pursued undergraduate study for at least two years, and work in not more than two minor subjects which bears a distinct relation to the general plan or purpose of the major subject.

At least three-fifths of the work must be done in the major subject. In special cases all the work may be done in one department.

All of the work must be of advanced character and must be tested by examinations which the candidate shall pass with distinction. Final written examinations for all regular courses completed, together with a copy of the questions set, shall be deposited with the secretary of the committee.

The candidate shall prepare as a part of his curriculum a satisfactory thesis on some topic connected with the major subject. The thesis

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must be deposited in completed form with the Dean of the University on or before the date set for the oral examination.

At the end of the course of study for the master's degree, the candidate will be required to pass an oral examination covering his work, including the thesis work. This examination shall be open to all voting members of the faculty of the university. The time for such examinations will be arranged by the Dean of the University to accord, so far as possible, with the convenience of the candidate and the major instructor, between the dates of May 15 and June 1; but no student will be admitted to an oral examination until his thesis has been accepted. On May 15, the Dean of the University will notify the heads of all departments of the university of the dates set for the public oral examinations of all candidates of the year. While the examination will in each case, as a matter of course, be conducted chiefly by the members of the department in which the work has been done, any member of the faculty present at the examination has the privilege of questioning the candidate. The Committee on Graduate Study will be represented at each examination.

The professional degrees of Chemical Engineer (Ch. E.), Civil Engineer (C. E.), Electrical Engineer (E. E.), and Mechanical Engineer (M. E.) may be conferred upon graduates in the curricula in Chemistry, Chemical Engineering, Electrical Engineering, and Mechanical Engineering respectively, upon the presentation of satisfactory theses, after at least three years of professional work subsequent to graduation. During at least two of the years after graduation the candidate must have occupied a position of responsibility. Candidates are expected to be present in person to receive their degrees.

THESES

Theses shall be printed, or typewritten in black record, unless the subject matter prevents, and the paper used shall be a standard thesis paper, 8 x 10 1-2 inches, which may be procured at the University Store. Care should be taken to have a margin of one inch on the inner edge, at least one-half inch on the outer edge, one and one-half inches at the top, and one inch at the bottom of the page.

If drawings accompany the thesis, they may be bound in with the rest of the pages or placed in a pocket on the inside of the book cover; or if too many for this, they may be bound separately according to per-

EXPENSES

sonal instructions of the head of the department.

An outline of all undergraduate theses must be passed to the major instructor before May 1.

Complete instructions may be found in a pamphlet entitled "Degrees and Theses."

STUDENT EXPENSES

The estimates are prepared upon the basis of students living in university halls.

ESTIMATE OF ANNUAL EXPENSES

	Students from within the State		Students from without the State
Registration	\$10 00		\$10 00
Incidental	30 00		30 00
Tuition	30 00		100 00
Laboratory fees.....	10 00 to 25 00		10 00 to \$25 00
Text-books	10 00 to 30 00		10 00 to 30 00
Board 36 weeks @ \$5.00	180 00		180 00
Room in a dormitory	36 00		36 00
	<hr/>		<hr/>
	\$306 00 to \$341 00		\$376 00 to \$411 00

EXCEPTIONS

By legislative enactment, students in agricultural and home economics curricula are exempted from the payment of tuition charges. This applies only to students from within the State. For such students the above estimates should be reduced by an amount equal to the tuition charge.

DETAILS OF LABORATORY FEES

The laboratory charges indicated above are made to cover cost of material used by the students. These charges vary with the subject and length of the course. They are as follows: Agronomy, per course,

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\$1.00 to \$1.50; Animal Industry, per course, \$1.00 to \$4.00; Bacteriology, per course, \$3.00; Biological Chemistry, per course, \$3.00 to \$4.00; Biology, per course, \$2.00 to \$3.00; Chemistry, per course, \$2.00 to \$5.00; Civil Engineering, per course, \$2.00 to \$5.00; Electrical Engineering, per course, \$5.00; Home Economics, from \$1.00 to \$12.00 per semester; Horticulture, per course, \$1.00 to \$2.00; Mechanical Engineering, per course, \$5.00; Mineralogy, per course, \$2.00; Pharmacy, about \$5.00 per semester; Physics, per course, \$2.50 to \$3.50; Shop Work, per course, \$4.00 to \$5.00.

SPECIAL CHARGES

A fee of \$2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of two dollars.

A fee of \$5.00 is required at the time of registration for a professional degree, and a fee of \$10.00 is required upon presentation of the thesis.

ROOMS

The rooms in the Mt. Vernon House, Balentine Hall, Oak Hall, and the middle section of Hannibal Hamlin Hall accomodate two students each. All other rooms accomodate four students each.

Dormitory charges include steam heat and electric lights. The rooms in the dormitories for men are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in the dormitory has bed linen and three towels laundered each week without extra charge.

Women students not living at home are required to live in one of the women's dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the President. To secure the reservation of a room in a university dormitory, application, accompanied by a deposit of \$5.00, should be made on or before September 1.

EXPENSES

DEPOSITS TO COVER EXPENSES

(These deposits are made at the beginning of each semester)

STUDENTS FROM WITHIN THE STATE

	Registration	Tuition	Incidentals	Board and Room	To apply on Laboratory Fees	Key Deposit	Total
Students in Agriculture.....	\$5.00	-----	\$15.00	\$100.00	\$5.00	\$5.00	\$130.00
Students in Home Economics...	5.00	-----	15.00	100.00	5.00	-----	125.00
Students in College of Law....	5.00	20.00	15.00	-----	-----	-----	40.00
Students in all other courses...	5.00	15.00	15.00	100.00	5.00	5.00	145.00

STUDENTS FROM WITHOUT THE STATE

	Registration	Tuition	Incidentals	Board and Room	To apply on Laboratory Fees	Key Deposit	Total
Students in Agriculture.....	\$5.00	\$50.00	\$15.00	\$100.00	\$5.00	\$5.00	\$180.00
Students in Home Economics...	5.00	50.00	15.00	100.00	5.00	-----	175.00
Students in College of Law....	5.00	50.00	15.00	-----	-----	-----	70.00
Students in all other courses...	5.00	50.00	15.00	100.00	5.00	5.00	180.00

For a student not living in a university dormitory the above deposits are reduced by \$100.00.

Students in the College of Law, which is located in Bangor, do not live in university dormitories, therefore no deposit is required to apply on board and room. Board and furnished rooms, with light and heat, may be obtained at prices ranging from \$5.00 to \$7.00 a week.

COMMUNICATIONS

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

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KITTRIDGE LOAN FUND

This fund, amounting to nearly one thousand dollars, was established by Nehemiah Kittridge, of Bangor. It is in the control of the President and the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. In the deed of gift it was prescribed that no security but personal notes bearing interest at the prevailing rate should be required. Loans are made on the conditions that the interest be paid promptly, and that the principal be returned from the first earnings after graduation. Individual loans are limited to \$50.00.

SCHOLARSHIPS AND PRIZES

THE KIDDER SCHOLARSHIP, thirty dollars, was endowed by Frank E. Kidder, Ph. D., Denver, Colorado, a graduate of the university of the class of 1879, and is awarded to a member of the junior class to be selected by the President and the faculty.

NEW YORK ALUMNI ASSOCIATION SCHOLARSHIP, thirty dollars, is awarded upon conditions to be determined by the Board of Trustees. It has for some years been awarded to the student who excelled in debate.

PITTSBURG ALUMNI ASSOCIATION SCHOLARSHIP, tuition for one year, is awarded to a member of the junior class in the College of Technology, to be selected by the President and the professors of that college.

WESTERN ALUMNI ASSOCIATION SCHOLARSHIP, tuition for the sophomore year, is awarded a student pursuing a regular curriculum whose deportment is satisfactory and who makes good progress in his studies during his freshman year.

THE ELIZABETH ABBOTT VALENTINE SCHOLARSHIP was endowed by the Gamma chapter of Alpha Omicron Pi for a woman member of the sophomore class to be determined by the President and the faculty. This scholarship will be at least thirty dollars. Both scholarship and individual need are to be considered in the award.

THE JOSEPH RIDER FARRINGTON SCHOLARSHIP, a gift of Arthur M., Edward H., Oliver C., Horace P., and Wallace R. Farrington, all graduates of the University of Maine and sons of Mr. and Mrs. Joseph Rider

SCHOLARSHIPS AND PRIZES

Farrington. The gift amounts to \$1000 and provides a scholarship under conditions mentioned by the donors.

JUNIOR EXHIBITION PRIZES of fifteen dollars each are awarded to the members of the junior class who deliver the best orations at the junior exhibition. One prize is awarded to the man receiving the first rank in competition with the men of the junior class, and one prize awarded to the woman receiving first rank in competition with the women of the junior class. In the award of these prizes regard is given to thought, style, and delivery. Copies of these orations must be deposited with the Registrar before February 1.

SOPHOMORE ESSAY PRIZES, two of fifteen dollars each, one for men and one for women, are awarded to members of the sophomore class for excellence in composition. These essays must be presented by May 1.

CLARENCE P. KING PRIZE, twenty-five dollars, the gift of Mr. Clarence P. King, of Washington, D. C., is awarded to that member of the senior and junior classes who delivers the best original oration.

WALTER VALENTINE PRIZE, fifteen dollars, the gift of Whitman H. Jordan, Sc. D., LL. D., Geneva, N. Y., a graduate of the university of the class of 1875, is awarded to that member of the junior class who excels in biological chemistry.

KENNEBEC COUNTY PRIZE, twenty-five dollars, the gift of the Hon. William T. Haines, LL. D., Waterville, a graduate of the university of the class of 1876, is awarded to that member of the junior class who writes the best thesis on applied electricity.

FRANKLIN DANFORTH PRIZE, ten dollars, the gift of the Hon. Edward F. Danforth, Skowhegan, a graduate of the university of the class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in an agricultural curriculum who attains the highest standing.

FATHER HARRINGTON PRIZE, twenty dollars, established by Rev. John M. Harrington, pastor of St. Mary's Church, Orono, is given to that student who writes the best essay upon modern literature. It may treat of German, English, French, Spanish, or Italian literature. The essay may be limited to any one of these literatures or to a comparative study of any number of them. This is open to any student in the university. These essays must be deposited with the Registrar before May 1.

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PHARMACY PRIZE, five dollars, is awarded to that student in the Pharmacy Department who attains the highest standing in chemistry in the last year of his course.

HOLT PRIZES, the gift of Dr. Erastus Eugene Holt, of Portland, are given to the three students of the senior class who show the greatest improvement in their physical rating. The rating will be determined from deductions made from the gymnasium and class records of the students at the beginning and end of their college course by the mathematical formula for the normal earning ability of the body devised by Dr Holt.

THE MENORAH PRIZE, \$10.00, the gift of the Maine Menorah Association, is awarded to the student who presents the best essay on any Jewish subject.

THE AMERICAN LAW BOOK COMPANY PRIZE, consisting of a complete set of "Cyc" with annual annotations to date, is given to the student in the College of Law who shall take the highest scholarship honor for the period of his senior year. The method of award is left to the faculty of the College of Law.

THE CALLAGHAN AND COMPANY PRIZE, consisting of the Cyclopedic Law Dictionary, is given to the student in the College of Law who has obtained the highest general average for his junior year.

THE MALCOLM FASSETT STATE-CENTENNIAL PRIZE, \$50.00, the gift of Malcolm E. Fassett, of the class of 1910, will be awarded to the student who writes the best one-act play dealing with typical or historical life and character in the State of Maine. The play should be in one act, preferably in one scene, and should require from thirty to forty-five minutes in presentation. In order to have the prize play available for production in 1920, all manuscripts will be due March 15, 1919. The contest will be under the direction of the council of the Maine Masque, subject to the approval of the President of the University. Plays may be submitted by any undergraduate student who is in regular standing at the university on March 15, 1919.

CLASS OF 1908 COMMENCEMENT CUP is awarded to the fraternity, the largest percentage of whose alumni register during Commencement week.

FRATERNITY SCHOLARSHIP CUP, presented to the university by the 1910 Senior Skull Society, is awarded at Commencement to that frater-

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nity having the highest standing in scholarship for the preceding calendar year. The cup is to be awarded for eleven years, 1910 to 1920 inclusive, and the fraternity to which it is awarded the greatest number of times is to be its permanent owner.

FRESHMAN SCHOLARSHIP CUP, presented by the Junior Mask Society, is awarded at Commencement to the fraternity whose freshman delegation has the highest standing in scholarship for the first semester.

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GENERAL REQUIREMENTS.—Candidates for admission should apply to the Registrar for an application card. They must present satisfactory certificates of fitness, or pass the required examinations, and make a cash deposit covering the bills of one semester. The university admits men and women, both residents of Maine and non-residents.

ADMISSION TO ADVANCED STANDING.—Candidates for advanced standing are examined in the preparatory studies, and in those previously pursued by the classes they wish to enter, or in other equivalent studies. A rank of B must be attained in order to pass any course without class attendance. Certificates from approved schools are accepted for the preparatory work, but certificates are not accepted for any part of the college work, unless such work has been done in a college. Students transferring from another college must present a letter of honorable dismissal.

SPECIAL STUDENTS.—Persons 21 years of age, not candidates for a degree, may be admitted as special students if they give satisfactory evidence that they are prepared to take the desired subjects.

ADMISSION TO SHORT COURSES

Candidates for the two-year CURRICULUM IN PHARMACY must be at least seventeen years of age, and must have successfully completed at least three years in an approved high school. Such candidates must offer four years of high school work in the fall of 1919 and thereafter.

Candidates for the three-year CURRICULUM IN PHARMACY must be graduates of a recognized high school or its equivalent and must have successfully completed the two-year CURRICULUM IN PHARMACY or its equivalent.

UNIVERSITY OF MAINE

Candidates for admission to the two-year SCHOOL COURSE IN AGRICULTURE must be over fifteen years of age and prepared for advanced grammar or high school work.

ADMISSION BY EXAMINATIONS

Entrance examinations are held at Orono, beginning four days before the opening of the fall semester, and on Wednesday, Thursday, Friday, and Saturday preceding Commencement. To save expense to candidates, examination papers will be sent to any satisfactory person who will consent to conduct examinations on the days appointed in June. If possible, these examinations should be in charge of the principal of the school. Papers will not be sent at any other time. The questions are to be submitted under the usual restrictions of a written examination, and the answers returned to the university immediately, accompanied by the endorsement of the examiner. The examination must be given on the days appointed in the schedule. Applications for such examinations must be made out on blanks to be obtained from the Registrar. Candidates for admission by examination, particularly those examined at Orono in September, should present statements from their school principals regarding their fitness to take the examinations and to undertake college work.

The examinations given by the College Entrance Examination Board will be accepted by the university. These examinations will be held during the week June 17-22, 1918. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon Application.

A candidate who wishes to be examined on part of his work in advance of the year in which he proposes to enter the university may receive credit for such examination, provided he has completed not less than one-half of his preparatory work. It is advised that candidates avail themselves of this privilege as far as possible. Examinations on subjects which are to be continued in college should not be taken more than one year in advance.

ADMISSION OF GRADUATES FROM CLASS A SCHOOLS IN MAINE

Graduates from Maine high schools and academies placed by the State Superintendent of Schools in Class A may be admitted upon their

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school records, provided they have pursued a course of study including all the subjects required for admission to the curriculum that they propose to follow and a sufficient number of the elective subjects to make a total of fourteen and a half units.

The school record of the candidate must be certified by the principal, upon blanks furnished by the university, and should be submitted before August 1.

ADMISSION BY CERTIFICATE FROM SCHOOLS OUTSIDE OF MAINE

Principals of schools situated outside of Maine who desire the certificate privilege must make application to the Dean of the University, and must furnish satisfactory evidence that the course of study in the school meets the requirements for admission. Blank forms for this purpose will be supplied on request.

Certificates will not be accepted for non-graduates except in unusual cases, and then only provided the candidate is expressly recommended for admission by the principal of the high school from which he comes. Certificates must be made out on blanks furnished by the university.

ENTRANCE REQUIREMENTS

To gain admission to any of the curricula leading to the degree of Bachelor of Arts or Bachelor of Science, 14½ units must be offered by the candidate, according to the following schedules (to count one unit, a subject must be pursued for one school year, with five recitation periods a week):

COLLEGE OF ARTS AND SCIENCES

Required Subjects

Foreign languages.....	4	units
English	3	"
History	1	unit
*Mathematics	2½	units
		<hr/>
		10½units

*Candidates who wish to pursue a curriculum without mathematics will be accepted with one unit of algebra and one of plane geometry.

UNIVERSITY OF MAINE

Not less than two units of any foreign language may be offered. Credit for advanced work will be accepted at the rate of one unit for each year of work.

Optional Subjects (4 units to be chosen)

Greek	2 or 3	units
Latin	2, 3, or 4	"
French	2, 3, or 4	"
German	2, 3, or 4	"
Spanish	2, 3, or 4	"
Advanced algebra.....		$\frac{1}{2}$ unit
Solid geometry.....		$\frac{1}{2}$ "
Trigonometry	1	"
Chemistry (including note-book).....	1	"
Physics (including note-book).....	1	"
Physiography (one half or one year).....	$\frac{1}{2}$ unit or 1	"
Biology (including note-book).....	1	"
Botany (including note-book).....	1	"
Zoology (including note-book).....	1	"
Physiology		$\frac{1}{2}$ "
Ancient History (1 year).....	1	"
English History (1 year).....	1	"
American History and civil government (1 year)....	1	"
Medieval and modern history.....	1	"

COLLEGES OF AGRICULTURE AND TECHNOLOGY

Required Subjects

English	3	units
*Algebra	$1\frac{1}{2}$	"
Plane geometry.....	1	unit

*Candidates who have had two full years of algebra, including a review during the last year, and the use of an advanced text-book, may receive credit of two units. Such a course is recommended for those who wish to pursue a curriculum in engineering or chemistry. Candidates for a curriculum in agriculture, forestry, or home economics will be accepted with one unit of algebra.

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Solid geometry (College of Technology except Pharmacy)....	$\frac{1}{2}$	"
Foreign language (two years of one language).....	2	units
Science	1	unit
History	1	"

9½ or 10 units

Optional Subjects (4 1-2 or 5 units to be chosen)

Each year of French.....	1	unit
" " German	1	"
" " Spanish	1	"
" " Latin	1	"
" " Greek	1	"
Advanced Algebra.....	$\frac{1}{2}$	"
Trigonometry	$\frac{1}{2}$	"
*Mechanical Drawing.....	$\frac{1}{2}$	"
*Manual training.....	$\frac{1}{2}$	"
Chemistry (including note-book).....	1	"
Physics (including note-book).....	1	"
Physiography (one-half year or one year).....	$\frac{1}{2}$ unit or 1	"
Biology (including note-book).....	1	"
Botany (including note-book).....	1	"
Zoology (including note-book).....	1	"
Physiology	$\frac{1}{2}$	"
Roman History.....	$\frac{1}{2}$	"
Greek history.....	$\frac{1}{2}$	"
English history.....	$\frac{1}{2}$ or 1	"

Candidates for admission to any curriculum, who are well prepared in all the required subjects, but whose high school course has included studies other than the electives mentioned above, will be allowed to substitute such as will furnish a real equivalent. Each case of proposed substitution will be considered upon its merits.

*Graduates from high schools giving a full manual training course may receive credit for mechanical drawing, manual training, and free-hand drawing, on the basis of one-half unit for five forty-five minute periods per week for one year in one subject taken in the high school.

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Credits for industrial and commercial subjects may be given at the discretion of the committee on admission. The total credit for these subjects will be limited to two units for admission to the College of Arts and Sciences, and to four units for the Colleges of Agriculture and Technology.

The requirement in history will be satisfied by a year of Greek and Roman history, or a year of English history, or a year of medieval and modern history, or a year of American history and civil government.

COLLEGE OF LAW

Regular Students. Students who enter as candidates for degrees must present credentials showing the completion of at least two full years of work in an approved college or university. An approved college or university will be understood to mean a college or university which requires at least 14 Carnegie units for entrance, which offers facilities for good college work, and which maintains acceptable standards.

Special Students. Special students will be admitted only when they satisfy the following requirements: They must be at least 21 years of age; they must appear personally before the committee on administration, and satisfy this committee that they have the maturity and mental training that will qualify them to do acceptably the work required of regular students.

REQUIREMENTS IN DETAIL

Languages

ENGLISH.—The entrance examination in English presupposes courses in composition and English literature pursued in the high school during four years. Prospective students are warned against attempting to prepare the required work in less time. Progress in composition particularly is of slow growth and requires almost daily cultivation during a long period of time. Books, to be thoroly enjoyed and appreciated, should be read leisurely and under favorable circumstances.

Rhetoric.—Candidates are expected to have had practice in composition for at least three days a week during the whole four years of the high school, and to have included in the latter part of their course such

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work in the elements of rhetoric as, for example, is contained in Carpenter's Rhetoric and Composition.

Grammar.—The examination will include questions on the syntax of sentences, and on general grammatical principles.

Weight of Composition.—The examination is mainly designed to test the candidate's ability to express his thought correctly and clearly. It is quite possible to answer all questions on the literature correctly, and yet fail on the examination as a whole because of crude and ungrammatical English. Prospective candidates are advised to give especial attention to spelling, punctuation, grammatical correctness, idiomatic words and phrases, sentence and paragraph formation.

Subjects.—Subjects for short compositions will be taken from a prescribed list of books; also from the candidate's general knowledge and experience.

The prescribed books are those adopted by the Conference on Uniform Entrance Requirements. There is a list for general reading and a list for study. They will be furnished upon application to the university.

FRENCH.—The admission requirements in elementary and intermediate French are those recommended by the Modern Language Association of America.

I. *Elementary French.*—At the end of the second year the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

The first year's work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the pronouns, common adverbs, prepositions, and conjunctions; order of words in the sentences, and elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in memory the forms and principles of grammar, but also to cultivate readiness in reproducing natural forms of expression; (4) the reading of 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and

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in reproducing from memory sentences previously read; (5) writing French from dictation.

The second year's work should comprise: (1) the reading of 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are: About, *le Roi des montagnes*; Bruno, *le Tour de la France*; Daudet, *Easier Short Tales*; De la Bédollière, *la Mère Michel et son chat*; Erckmann-Chatrian, *Novels*; Foa, *Contes biographiques* and *le Petit Robinson de Paris*; Foncin, *le Pays de France*; Labiche et Martin, *la Poudre aux yeux* and *le Voyage de M. Perrichon*; Legouv   et Labiche, *la Cigale chez les fourmis*; Malot, *Sans famille*; Mair  t, *la T  che du petit Pierre*; M  rim  e, *Colomba*; Extracts from Michelet; Sarcey, *le Si  ge de Paris*; Verne's *Stories*.

II. *Intermediate French*.—At the end of the third year the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thoro knowledge of syntax than is expected in the elementary course.

This should comprise the reading of 400 to 600 pages of French of ordinary difficulty, a portion to be the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate proportions; writing from dictation.

Suitable texts are: About *Novels*; Augier et Sandeau, *le Gendre de M. Poirier*; B  ranger *Poems*; Corneille, *le Cid* and *Horace*; Copp  e, *Poems*; Daudet, *la Belle Nivernaise*; La Br  te, *Mon oncle et mon cur  *; Madame de S  vigne, *Letters*; Victor Hugo, *Hernani* and *la Chute*; Labiche, *Plays*; Loti, *P  cheur d'Islande*; Mignet, *Historical Writings*; Racine, *Andromaque* and *Esther*; George Sand, *Novels*; Sandeau, *Mademoiselle de la Seigli  re*; Scribe, *Plays*; Thierry, *R  cits*; Vigny, *la Canne de jonc*; Voltaire, *Historical Writings*.

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At the end of the fourth year the pupils should be able to read at sight, with the help of a vocabulary of special or technical expressions, difficult French not earlier than that of the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to put into French a passage of easy English prose, and to carry on a simple conversation in French.

This should comprise the reading of from 600 to 1,000 pages of standard French, classical and modern, only difficult passages being explained in the class; the writing of numerous short themes in French; the study of syntax.

Suitable reading matter will be: Beaumarchais, *le Barbier de Séville*; Corneille, Dramas; Dumas père, Prose Writings; Dumas fils, *la Question d'argent*; Victor Hugo, *Ruy Blas*, Lyrics, and Novels; La Fontaine, *Fables*; Larmartine, *Graziella*; Marivaux Plays; Molière, Plays; Musset, Plays and Poems; Pellissier, *le Mouvement littéraire au XIX siècle*; Renan, *Souvenirs d'enfance et de jeunesse*; Rousseau, Writings; Sainte-Beuve, Essays; Selections from Zola, Maupassant, and Balzac.

The examination of the College Entrance Certificate Board in elementary French will be accepted for two units, and that in intermediate French for one additional unit.

GERMAN.—The admission requirements in elementary and advanced German are those recommended by the Modern Language Association of America.

I. Elementary German.—The first year's work should comprise: (1) careful drill upon pronunciation; (2) memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar; that is, upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives, pronouns, weak verbs, and the more unusual strong verbs; also in the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word order; (4) abundant easy exercises, designed not only to fix in mind the forms and principles of grammar but also to cultivate readiness in reproducing natural forms of expression; (5) the reading of 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in reproducing from memory sentences previously read.

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The second year's work should comprise: (1) the reading of 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in translating into German easy variations upon the matter read, also in the off-hand reproductions, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill in the rudiments of grammar, to enable the pupil first, to use his knowledge with facility in forming sentences, and secondly, to state his knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Anderson, *Märchen* and *Bilderbuch ohne Bilder*; Baumbach, *Die Nonna* and *Der Schwiegersohn*; Gerstäcker, *Germelshausen*; Heyse, *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern, *Höher als die Kirche*; Jensen, *Die braune Erica*; Leander, *Träumereien* and *Kleine Geschichten*; Seidel, *Märchen*; Stokl, *Unter dem Christbaum*; Storm, *Immensee* and *Geschichten aus der Tonne*; Zschokke, *Der zerbrochene Krug*.

The best shorter plays available are: Benedix, *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz, *Er ist nicht eifersüchtig*; Wichert, *An der Majorsecke*; Wilhelmi, *Einer muss heiraten*. Only one of these plays need be read and the narrative style should predominate. A good selection of reading matter for the second year would be Anderson, *Märchen* or *Bilderbuch*, or Leander, *Träumereien*, to the extent of about forty pages. Afterward, such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; last *Der Prozess*.

II. *Advanced German*.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; also grammatical drill in the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with especial reference to the infinitive and subjunctive), and likewise in word order and word formation. To do this work two school years are usually required.

Suitable reading matter for the third year may be selected from such work as the following: Ebner-Eschenbach, *Die Freiherren von Gemperlein*; Freytag, *Die Journalisten* and *Bilder aus der deutschen Ver-*

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gangenheit, *Karl der Grosse, Aus den Kreuzzügen, Doktor Luther, Aus dem Staat Friedrichs des Grossen*; Fouqué, *Undine*; Gerstäcker, *Irrfahrten*; Goethe, *Hermann und Dorothea* and *Iphigenie*; Heine's Poems and *Reisebilder*; Hoffman, *Historische Erzählungen*; Lessing *Minna von Barnhelm*; Meyer, *Gustav Adolfs Page*; Moser, *Der Bibliothekar*; Riehl, *Novellen, Burg Neideck, Der Fluch der Schönheit, Der Stumme Ratsherr, Das Spielmannskind*; Rosegger, *Waldheimat*; Schiller, *Der Neffe als Onkel, Der Geisterseher, Wilhelm Tell, Die Jungfrau von Orleans, Das Lied von der Glocke, Balladen*; Scheffel, *Der Trompeter von Säckingen*; Uhland's Poems; Wildenbruch, *Das edle Blut*. A good selection would be: (1) one of Riehl's novelettes; (2) one of Freytag's "pictures;" (3) part of *Undine* or *Der Geisterseher*; (4) a short course of reading in lyrics and ballads; (5) a classical play by Schiller, Lessing, or Goethe.

The examinations of the College Entrance Certificate Board in elementary German will be accepted for two units, and that in advanced German for one additional unit.

SPANISH.—The admission requirements in Spanish are those of the College Entrance Examination Board.

Elementary Spanish.—At the end of the second year of the elementary course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as indicated below.

The first year's work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the careful reading and accurate rendering into good English of about 100 pages of easy prose and verse, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

The second year's work should comprise: (1) The reading of about 200 pages of prose and verse; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb forms and of the simpler uses of the

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modes and the tenses; (5) writing Spanish from dictation; (6) memorizing of easy short poems.

The emphasis should be placed on careful thoro work with much repetition rather than upon rapid reading. The reading should be selected from the following: A collection of easy short stories and lyrics, carefully graded; Juan Valera, *El pájaro verde*; Pérez Escrich, *Fortuna*; Ramos Carrión and Vital Aza, *Zaragüeta*; Palacio Valdés, *José*; Pedro de Alarcón, *El Capitán Veneno*; the selected short stories of Pedro de Alarcón or Antonio de Trueba.

LATIN.—The entrance examination in Latin will consist of four parts as follows:

1. An examination on the elements of Latin grammar and easy translations.

2a. An examination in sight translation of Latin prose suited to test the ability of a candidate who has read from Cæsar (Gallic War and Civil War) and Nepos (Lives) an amount not less than Cæsar, Gallic War, I-IV.

b. Questions on the ordinary forms and constructions of Latin grammar and the translation of easy English sentences into Latin.

3a. An examination on Cicero, speeches for the Manilian Law and for Archias, with questions on subject-matter, literary and historical allusions, and grammar.

b. An examination in sight translation of Latin prose adapted to candidates who have read from Cicero (speeches, letters, and De Senectute) and Sallust (Catiline and Jugurthine War) an amount not less than Cicero, speeches against Catiline I-IV, for the Manilian Law, and for Archias.

c. A test in writing simple Latin prose which shall demand a thoro knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school.

4a. An examination on Vergil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject matter, literary and historical allusions, and prosody.

b. An examination in sight translation of Latin poetry adapted to candidates who have read from Vergil (*Bucolics*, *Georgics*, and *Æneid*) and Ovid (*Matamorphoses*, *Fasti*, and *Tristia*) an amount not less than Vergil, *Æneid*, I-VI.

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A candidate may obtain separate credit for each part except in the College of Arts and Sciences. Each represents a year's work and entrance credit for one unit.

In parts 2 and 3 candidates must deal satisfactorily with both the sight and set passages, or they will not be given credit for either.

GREEK.—The grammar, including prosody; Xenophon's *Anabasis*, books I-IV; Homer's *Iliad*, books I-III; the sight translation of easy passages from Xenophon; the translation into Greek of easy passages based on the required books of the *Anabasis*. For the last a vocabulary of less usual words will be furnished. Equivalent readings will be accepted in place of those prescribed.

GREEK HISTORY.—History of Greece, to the capture of Corinth, 146 B. C.; Myers, Morey, or Botsford.

History

ROMAN HISTORY.—A knowledge of Roman history, down to the death of Marcus Aurelius, such as may be obtained from Allen's *Short History of the Roman People*, or from Meyer's *Rome: Its Rise and Fall*, or from Morey's *Outlines of Roman History*.

ENGLISH HISTORY.—A knowledge such as may be obtained from Montgomery, Coman and Kendall, Terry, or Cheyney's *History of England*.

UNITED STATES HISTORY AND CIVIL GOVERNMENT.—A knowledge such as may be obtained from the works of Fiske, Hart, Montgomery, or McLaughlin.

Mathematics

ALGEBRA.—The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and least common multiple by factoring; fractions, including complex fractions, and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including fractional and negative; quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that may be solved by the methods of linear or quadratic equations; problems de-

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pending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils are required throughout the course to solve numerous problems which involve putting questions into equations. Some of the problems should be chosen from mensuration, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

PLANE GEOMETRY.—The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle.

SOLID GEOMETRY.—The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

TRIGONOMETRY.—Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle; the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles, and practical application.

ADVANCED ALGEBRA.—Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

ADMISSION

Sciences

***BIOLOGY.**—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

***CHEMISTRY.**—The necessary ground is covered by the following text-books: Brownlee and others, Hessler and Smith, McPherson and Henderson, Newell.

PHYSICAL GEOGRAPHY (PHYSIOGRAPHY).—A satisfactory preparation may be obtained from either Appleton's or Tarr's Physical Geography.

***PHYSICS.**—The work usually covered in one year in a good fitting school.

The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the board. The note-book should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

*The work in these sciences must include certified note-books exhibiting the results of experimental work performed by the student. In physics forty exercises are required and in chemistry fifty exercises. These note-books should be presented at the examination. In the case of students certified in the sciences, the principal is expected to pass upon the quality of the note-book rather than send them to the university.

Organization of the University

The university is divided for purposes of administration into the Colleges of Agriculture, Arts and Sciences, Law, and Technology, and the Maine Agricultural Experiment Station. The policies of the university as a unit are determined by the Board of Trustees and the general faculty, but each division regulates those affairs which concern itself alone.

COLLEGE OF AGRICULTURE

Curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, Poultry Husbandry, and for Teachers of Agriculture.

School Course in Agriculture (two years)

Short courses; Farmers' Week; Correspondence and Lecture Courses; Demonstration Work; Extension Schools.

COLLEGE OF ARTS AND SCIENCES

Major subjects may be selected in Biology, Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, and Spanish and Italian.

COLLEGE OF LAW

This College offers a prescribed curriculum leading to the degree of Bachelor of Laws.

COLLEGE OF TECHNOLOGY

Curricula in Chemical Engineering, Chemistry, Civil Engineering, Electrical Engineering, Mechanical Engineering, and Pharmacy.

ORGANIZATION OF THE UNIVERSITY

MAINE AGRICULTURAL EXPERIMENT STATION

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.

GRADUATE COURSES leading to the Master's degree have been organized. These courses are administered by the Committee on Graduate Study.

A SUMMER TERM of six weeks is maintained by the university.

The college year is divided equally into a fall semester and a spring semester. The minimum regular work for a semester in the College of Arts and Sciences is fourteen hours a week (exclusive of physical training and military science). In the College of Agriculture and the College of Technology the minimum is seventeen hours a week (exclusive of physical training and military science). Thirty hours in the major subject represent the minimum requirement for a degree.

UNIVERSITY OF MAINE

College of Agriculture

FACULTY OF INSTRUCTION

LEON STEPHEN MERRILL, M. D., *Dean and Director of Agricultural Extension Service*

LUCIUS HERBERT MERRILL, Sc. D., *Professor of Biological and Agricultural Chemistry*

FREMONT LINCOLN RUSSELL, B. S., V. S., *Professor of Bacteriology and Veterinary Science*

MINTIN ASBURY CHRYSLER, Ph. D., *Professor of Biology*

JOHN MANVERS BRISCOE, M. F., *Professor of Forestry*

GEORGE EDWARD SIMMONS, M. S., *Professor of Agronomy*

BLISS S BROWN, M. S., *Professor of Horticulture*

LAMERT SEYMOUR CORBETT, M. S., *Professor of Animal Industry*

FRANCES ROWLAND FREEMAN, M. S., *Professor of Home Economics*

ALICE MIDDLETON BORING, Ph. D., *Associate Professor of Zoology*

CARLTON WHIDDEN EATON, A. B., M. F., *Associate Professor of Forestry*

HAROLD SCOTT OSLER, B. S., *Associate Professor of Agronomy*

HARRY NEWTON CONSER, M. S., M. A., *Assistant Professor of Botany*

*HARRY WOODBURY SMITH, B. S., *Assistant Professor of Bacteriology*

*HERMAN PITTEE SWEETSER, B. S., *Assistant Professor of Horticulture*

DOROTHEA BEACH, B. S., *Assistant Professor of Home Economics*

CHARLES HOWARD BATCHELDER, M. S., *Assistant Professor of Zoology*

MAURICE DANIEL JONES, B. S., *Farm Management Demonstrator*

WILLIAM COLLINS MONAHAN, B. S., *Extension Instructor in Poultry Work*

*In government service. On leave of absence without pay.

COLLEGE OF AGRICULTURE

- PAUL WHEELER MONOHON, B. S., *Assistant County Agent Leader*
- HAROLD JOSEPH SHAW, *County Agricultural Agent, Sagadahoc and Androscoggin Counties*
- CLARENCE ALBERT DAY, *County Agricultural Agent, Washington County*
- ARTHUR LOWELL DEERING, B. S., *County Agricultural Agent, Kennebec County*
- GEORGE ALBERT YEATON, *County Agricultural Agent, Oxford County*
- ALBERT KINSMAN GARDNER, B. S., *County Agricultural Agent, Franklin County*
- GEORGE PIKE WORDEN, B. S., *County Agricultural Agent, Cumberland County*
- JOSEPH HENRY BODWELL, B. S., *County Agricultural Agent, Piscataquis County*
- ROGER LOCKE GOWELL, B. S., *County Agricultural Agent, Knox County*
- ROBERT MARKS STILES, *County Agricultural Agent, Somerset County*
- WILLIAM MELVIN GRAY, B. S., *County Agricultural Agent, York County*
- RALPH LORD SMITH, *County Agricultural Agent, Cumberland County*
- RICHARD BOULSBY DODGE, B. S., *County Agricultural Agent, Penobscot County*
- JOHN LESLIE SCRIBNER, B. S., *County Agricultural Agent, Aroostook County*
- NORMAN SYLVESTER DONAHUE, B. S., *County Agricultural Agent, Waldo County*
- RALPH PIKE MITCHELL, *State Leader Boys' and Girls' Agricultural Club Work*
- CHARLES EDWARD CROSSLAND, B. S., *Assistant Leader Boy's Agricultural Club Work*
- ALFREDA ELLIS, B. S., *Assistant Leader Girl's Agricultural Club Work*
- CATHARINE NORTON PLATTS, S. B., *Extension Instructor in Home Economics and State Leader Emergency Home Demonstration Project*
- KATHRYN TAYLOR GORDON, S. B., *Extension Instructor in Home Economics*
- EDWARD WATTS MORTON, B. S., *Extension Instructor in Dairying*
- RAYMOND HENRY FOGLER, M. S., *Secretary to the Director of Extension Service*

UNIVERSITY OF MAINE

- HARRY WOODBURY SMITH, B. S., *Assistant County Agent Leader*
BLYNN ALLEN, *Emergency District Demonstration Agent, Androscoggin
Kennebec, and Somerset Counties*
ROY SAWTELLE BACON, B. S., *Emergency District Demonstration Agent,
Cumberland, Oxford, and York Counties*
CHARLES LEON BLACKRUAN, M. S., *Assistant Emergency Demonstration
Agent, Penobscot County*
SYDNEY GURNEY EVANS, *Emergency County Agent, Lincoln County*
JOHN HARVEY PHILBRICK, B. S., *Assistant Emergency Demonstration
Agent, Aroostook County*
RUBY IRENE BARKER, *Emergency Home Demonstration Agent, Somerset,
Waldo, and Knox Counties*
LUCY THOMPSON DODGE, *Emergency Home Demonstration Agent, Penob-*
EDITH FLINT, *Emergency Home Demonstration Agent, Franklin, Andros-*
coggin and Oxford Counties
MARION ESTABROOKE HUNT, B. S., *Emergency Home Demonstration
Agent, State Wide Worker*
GRACE MAE NEAGLE, *Urban Emergency Home Demonstration Agent,
Portland*
EUNICE HALE NILES, *Emergency Home Demonstration Agent, Aroostook
County*
ERMA LUCILE ROYAL, *Emergency Home Demonstration Agent, Kenne-*
bec, Sagadahoc and Lincoln Counties
ALICE BLANCHE WEBSTER, S. B., *Emergency Home Demonstration Agent,
Washington and Hancock Counties*
RICHARD THEODORE MULLER, B. S., *Instructor in Horticulture*
OSCAR MILTON WILBUR, M. S., *Instructor in Animal Industry*
LEWELLYN MORSE DORSEY, B. S., *Instructor in Animal Industry*
ROY FRANK THOMAS, B. S., *Instructor in Agriculture*
LAWRENCE VINIAN JONES, LL. B., *Lecturer on Forestry Law*

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural Extension, Agronomy, Animal Industry, Biological and Agricultural Chemistry, Biology, Farm Management and Agricultural Engineer-

COLLEGE OF AGRICULTURE

ing, Forestry, Home Economics, Horticulture, and Veterinary Science and Bacteriology. The aim of this college is to train young men for service as farmers, teachers of agriculture and the allied sciences in schools and colleges, investigators in agricultural experiment stations, and foresters; and to prepare young women to become teachers of home economics and to comprehend the problems of administration in the home and in public institutions. On entering either a four-year curriculum or the two-year School Course in Agriculture a student is required to fill out a practical experience blank. Those who have not had experience in general farming are required to work during at least one summer vacation on some farm approved by the faculty of the college.

The college curricula are designed for those who wish to follow general farming, animal husbandry, dairy husbandry, poultry husbandry, horticulture, home economics, chemistry as related to experiment station work, biological chemistry, bacteriology and veterinary science, biology, farm management, and forestry either as a business or as a profession.

The courses of instruction are organized as follows:

1. REGULAR CURRICULA

The four-year general curricula in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Forestry, Home Economics, Horticulture, and Poultry Husbandry, and the four-year curriculum for Teachers in General Agriculture

2. SHORT COURSES

The two-year School Course in Agriculture

The short winter courses in General Agriculture, Dairying, Horticulture, and Poultry Management
Farmers' week

3. EXTENSION COURSES

The correspondence courses

The lecture courses

Movable or extension schools

One of the following curricula, embracing 150 college hours each, is required for the students pursuing a four-year curriculum in the College of Agriculture.

CURRICULA IN AGRICULTURE

Certain studies are fundamental to all work in agricultural lines. As many as possible of these studies are offered in the first two years, during which the student is necessarily given no choice of courses. By the beginning of the junior year each student must decide whether he is to specialize in Agronomy, Animal Husbandry, Biology, Dairy Husbandry, Home Economics, Horticulture, or Poultry Husbandry. To specialize in any of these lines, he must, during his junior and senior years, take the studies given in the schedules which follow.

Students who contemplate entering agricultural experiment station work should elect the course offered by the Department of Biological and Agricultural Chemistry covering the qualitative and quantitative chemical analysis of fodders, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

The elective subjects are selected with the advice of the major instructor.

Before receiving their degrees candidates must satisfy the faculty that they are familiar with the methods of conducting operations incident to general farming. This does not apply to students who major in Biology, Forestry, and Home Economics.

Curriculum for the First Two Years for All Students Taking Four-year Curricula in Agriculture

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 11, †4.....	2	Animal Industry 2.....	2
Chemistry 1 or 3.....	2	Animal Industry 4, †2.....	1
Chemistry 5, †4.....	2	Botany 2, 2 †4.....	4
Drawing 9, *3.....	1	Chemistry 2 or 4.....	3
Public Speaking 3.....	1	Chemistry 6, †4.....	2
English 7.....	2	Drawing 10, *3.....	1
Military 1, *3.....	1	Public Speaking 4.....	1
Modern Language.....	3	English 8.....	2
Zoology 1, 2, †4.....	4	Military 2, *3.....	1
Physical Training 1.....	½	Modern Language.....	2
		Physical Training 2.....	1

COLLEGE OF AGRICULTURE

SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 1, 2 *3.....	3	Agronomy 12, 2 †2.....	3
Animal Industry 3.....	2	Biochemistry 2, 3 †4.....	5
Animal Industry 5, †2.....	1	Biology 8, 2 †4.....	4
Biochemistry 1.....	2	Horticulture 2, 2 *3.....	3
Biology 3.....	2	Mathematics 12.....	2
Chemistry 15, 2 †2.....	3	Military 2, *3.....	1
Mathematics 11.....	3	Poultry Husbandry 2, 1 †2...	2
Military 1, *3.....	1		
Poultry Husbandry 1, 2 †2....	3		

Curriculum for Students Specializing in Agronomy

JUNIOR YEAR

Agronomy 13, 1 †2.....	2	Agricultural Chemistry 6....	2
Animal Industry 7, 2 †4.....	4	Agronomy 14, 1 †2.....	2
Bacteriology 1, †6.....	3	Agronomy 16, 1 †2.....	2
Bacteriology 3.....	2	Agronomy 18.....	2
Biology 9, 2 †6.....	5	Animal Industry 6.....	2
English 17.....	2	Biology 10, 2 †6.....	5
Elective	2	English 18.....	2
		Elective	3

SENIOR YEAR

Agronomy 3.....	2	Farm Management 2, †4.....	2
Agronomy 15, 1 †2.....	2	Farm Management 72, 2 *3..	3
Farm Management 71, 2 *3....	3	Farm Management 74, 2 *3..	3
Elective	10	Elective	7

UNIVERSITY OF MAINE

Curricula for Students Specializing in Animal Industry

ANIMAL HUSBANDRY

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Animal Industry 52, †2.....	1
Biology 51, 2 †4.....	4	Bacteriology 52, †6.....	3
English 17.....	2	Biology 52, 2 †4.....	4
Elective	3	English 18.....	2
		Veterinary Science 14.....	3
		Veterinary Science 16.....	1

SENIOR YEAR

Agronomy 3.....	2	Animal Industry 54.....	2
Animal Industry 53.....	2	Farm Management 2, †4....	2
Farm Management 71, 2 *3....	3	Farm, Management 72, 2 *3..	3
Veterinary Science 15.....	2	Elective	11
Veterinary Science 17.....	1		
Veterinary Science 19.....	2		
Elective	6		

DAIRY HUSBANDRY

JUNIOR YEAR

Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Animal Industry 8, 1 *6.....	3
English 17.....	2	Bacteriology 52, †6.....	3
Elective	7	English 18.....	2
		Veterinary Science 14.....	3
		Veterinary Science 16.....	1
		Elective	3

COLLEGE OF AGRICULTURE

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 3.....	2	Bacteriology 54, †4 or †6..	2 or 3
Animal Industry 9, 2 *6.....	4	Farm Management 2, †4.....	2
Animal Industry 51.....	3	Farm Management 72, 2 *3..	3
Farm Management 71, 2 *3....	3	Elective.....	10 or 9
Veterinary Science 15.....	2		
Veterinary Science 17.....	1		
Elective	3		

POULTRY HUSBANDRY

JUNIOR YEAR

Animal Industry 7, 2 †4.....	4	Agricultural Chemistry 6....	2
Bacteriology 1, †6.....	3	Animal Industry 6.....	2
Bacteriology 3.....	2	Biology 52, 2 †4.....	4
Biology 51, 2 †4.....	4	English 18.....	2
English 17.....	2	Poultry Husbandry 4.....	2
Poultry Husbandry 3, 1 †2....	2	Elective	7
Elective	2		

SENIOR YEAR

Agronomy 3.....	2	Farm Management 2, †4.....	2
Farm Management 71, 2 *3....	3	Farm Management 72, 2 *3..	3
Poultry Husbandry 5.....	2	Poultry Husbandry 6, 3 †2..	4
Poultry Husbandry 7, 2 †2....	3	Veterinary Science 12.....	2
Elective	7	Elective	6

Curriculum in Horticulture

JUNIOR YEAR

Bacteriology 3.....	2	Agricultural Chemistry 6....	2
Biology 9, 2 †6.....	5	Animal Industry 6.....	2
English 17.....	2	Bacteriology 2, †6.....	3
Horticulture 1, 2 †2.....	3	Biology 10, 2 †6.....	5
Horticulture 7, 2 †2.....	3	English 18.....	2
Horticulture 9, 2 †2.....	3	Horticulture 10.....	2
		Elective	2

UNIVERSITY OF MAINE

SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 3.....	2	Farm Management 2 †4.....	2
Farm Management 71, 2 *3....	3	Horticulture 4, 2 †2.....	3
Horticulture 3, 2 †2.....	3	Horticulture 8, 2 †2.....	3
Horticulture 5, 2 †2.....	3	Horticulture 52.....	1
Horticulture 51.....	1	Elective	9
Elective	6		

Curriculum in Biology

JUNIOR YEAR

Bacteriology 3.....	2	Bacteriology 2, †6.....	3
English 17.....	2	English 18.....	2
Geology 5.....	3	Modern Language.....	2
Modern Language.....	3	Plant Pathology 66.....	} 3
Plant Histology 61.....	} 4	or	
or		Elective	} 4
Vertebrate Anatomy 51...	} 3	Animal Embryology 52.	
Elective		Plant Physiology 62....	
		Elective	4

SENIOR YEAR

Animal Physiology 53.....	} 4	Animal Embryology....	} 4
or Plant Taxonomy		or	
and Morphology 63.....	} 1	Plant Physiology.....	} 4
Biology Seminar.....		Animal Histology 54...	
Thesis or Elective.....	3	or Plant Pathology 66	} or
Vertebrate Anatomy 51...	} 4	or Elective	
or		Biology Seminar.....	1
Plant Histology 61.....	} 6½	Thesis or Elective.....	3
Elective		Elective.....	6 or 7

COLLEGE OF AGRICULTURE

Forestry Curriculum

A complete undergraduate curriculum is arranged which will serve as the basis not only for practical work in forestry, but also for a liberal education. During the first two years much attention is given to biology and civil engineering, both of which are important fundamental subjects upon which are built the technical forestry courses. A knowledge of the principles of forestry in its different branches is gained by the student and considerable practical work is done in the forest. The woodlands belonging to the university, together with adjacent lands covered by young forest, furnish a field for the study of many forest problems. Field trips are made and demonstration thinnings and plantings made at various places thruout the State.

The instruction in this department consists of lectures, recitations, laboratory, and field work; the latter consumes a considerable portion of the scheduled time during the junior and senior years.

FRESHMAN YEAR

Subject	Hours	Subject	Hours
<i>Fall Semester</i>		<i>Spring Semester</i>	
Chemistry 1 or 3.....	2	Botany 2, 2, †4.....	4
Chemistry 5, †4.....	2	Chemistry 2 or 4.....	3
Drawing 1, *6.....	2	Chemistry 6, †4.....	2
English 7.....	2	Drawing 2, *6.....	2
Forestry 1.....	2	English 8.....	2
Mathematics 11.....	3	Mathematics 2.....	3
Military 1, *3.....	1	Mathematics 12.....	2
Zoology 1, 2 †4.....	4	Military 2, *3.....	1
Physical Training.....	½	Physical Training.....	1

UNIVERSITY OF MAINE

SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Agronomy 1, 2 *3.....	3	Biology 8, 2 †4.....	4
Biology 67, 2 †4.....	4	Biology 68, 2 †4.....	4
Civil Engineering 1.....	2½	Civil Engineering 2.....	1
Economics 1b.....	2	Civil Engineering 4.....	1
English 9.....	2	Economics 2b.....	2
Military 1, *3.....	1	English 10.....	2
Modern Language.....	3	Forestry 10.....	1
Public Speaking 3.....	1	Military 2, *3.....	1
		Modern Language.....	2
		Public Speaking 4.....	1

JUNIOR YEAR

Biology 61, 2 †4.....	4	Biology 62, 2 †4.....	4
Civil Engineering 21.....	1	Civil Engineering 22.....	2
Civil Engineering 23.....	1	Civil Engineering 24.....	2
Civil Engineering 27.....	1	Forestry 4.....	1
Forestry 11.....	2	Forestry 6.....	2
Forestry 13, *6.....	2	Forestry 8, *6.....	2
Horticulture 5, 2 †2.....	3	Forestry 28.....	1
Modern Language.....	3	Modern Language.....	2
Elective	3	Elective	3

SENIOR YEAR

Forestry 3.....	2	Biology 66 or 64.....	3
Forestry 5.....	1	Forestry 12.....	2
Forestry 9.....	1	Forestry 14, *6.....	2
Forestry 15.....	2	Forestry 16.....	2
Forestry 17, *6.....	2	Forestry 18, *6.....	2
Forestry 19.....	2	Forestry 20.....	2
Forestry 21, *6.....	2	Forestry 24.....	1
Elective	6	Elective	3

COLLEGE OF AGRICULTURE

Curriculum in Home Economics

This curriculum leads to the degree of Bachelor of Science (in Home Economics). In addition to the prescribed studies, elective courses are offered for those who plan to teach.

Laboratory fees are as follows: Courses 1, 2, 7, 8, 12, 13, 17, each \$1 a semester. Courses 5, 6, 10, 11, each \$6 a semester. All materials for garment making must be provided by the students.

Students taking courses 5, 6, 10, and 11 are required to wear in the laboratory white tailored waists, high collars, washable ties, caps, shoes with rubber heels, and white aprons with bibs. They must also be provided with small white hand towels.

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
English 7.....	2	English 8.....	2
History 7.....	3	History 8.....	3
Home Economics 1, 1 †4.....	3	Home Economics 2, 1 †4....	3
Home Economics 3, 1 †2.....	2	Home Economics 4, 1 †2....	2
Modern Language.....	3	Modern Language.....	2
Physical Training.....	½	Physical Training.....	1

SOPHOMORE YEAR

Art 3.....	2	Art 4.....	2
Chemistry 15, 2 †2.....	3	Botany 2, 2 †4.....	4
Elementary Physiology 5, 2 †4..	4	English 30.....	3
English 29.....	3	Food Analysis 8, 1 †6.....	4
Home Economics 5, 2 †4.....	4	Home Economics 6, 2 †4....	4
Modern Language.....	3	Modern Language.....	2
Physical Training.....	½	Physical Training.....	1

UNIVERSITY OF MAINE

JUNIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Bacteriology 1, †6.....	3	Home Economics 8, †6.....	3
Bacteriology 3.....	2	Home Economics 10, 3 †4....	5
Biochemistry 7, 3 †4.....	5	Philosophy 52.....	3
Home Economics 7, 2 †4.....	4	Physics 8, 4 †2.....	5
Philosophy 51.....	3	Elective	3
Elective	3		

SENIOR YEAR

English 45.....	3	Home Economics 12, 3 †2....	4
Home Economics 9.....	3	Home Economics 14.....	2
Home Economics 17, 1 †4.....	3	Home Economics 18, 1 †4....	3
Sociology 55.....	3	Sociology 56.....	3
Elective	6	Elective	6

Students desiring to teach should elect Education 51 and 52, and Home Economics 16.

Special Courses in Agriculture and Home Economics

The Special Courses in Agriculture and Home Economics are designed for young men and women who cannot spend four years in preparation, but who desire to secure special training. No fixed schedule of studies is prescribed, but students may elect along the line of horticulture, dairying, poultry management, veterinary science, agricultural chemistry, bacteriology, farm management, general agriculture, or home economics.

Persons not candidates for a degree who desire to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to pursue them. This privilege is intended for students of unusual maturity or previous advancement in particular subjects, and not for those who are incompetent to pursue a regular course. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four-year curricula. Tuition is free to residents of Maine except in Forestry and Biology.

COLLEGE OF AGRICULTURE

Two-year School Course in Agriculture

This is a course designed to train young men and women who wish to become practical farmers, farm superintendents, dairymen, poultrymen or gardeners, but who cannot devote time to high school or college training.

The same equipment is used as in the four-year curricula, but the work is of a more elementary nature. All the classes are separate and distinct from the four-year classes, and in no case will college credit be allowed for work done in the School Course.

There are no entrance examinations required of those who desire to enter the School Course. Students over fifteen years of age who are prepared for advanced grammar or high school work are eligible for registration. No tuition is charged in this course, but the same registration and incidental fees of fifteen dollars a semester, or thirty dollars a year, are charged School Course in Agriculture students as are charged all others attending the university. Fees amounting to two dollars and fifty cents are charged in each of the carpentry and blacksmithing courses to cover cost of material used. Fees are also charged in several agricultural laboratories.

The practical side of this work is strongly emphasized, and since students who complete it are expected to be able to do work and handle men, those taking this course are required to spend the summer vacation between the first and second years in work either at the college or on some farm approved by the faculty.

On completion of the course a certificate is awarded those who have satisfactorily done the work.

FIRST YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Husbandry, 3 †2.....	4	Dairy Husbandry, 3 *3.....	4
Business Arithmetic and Farm		English	3
Accounts	2	Farm Botany.....	2
Carpentry, *3.....	1	Forge Work, *3.....	1
English	3	Fruit Growing, 3 *3.....	4
Farm Crops, 3 *3.....	4	Poultry Husbandry, 2 †2.....	3
Fruit Handling, 3 *3.....	4	Soils and Fertilizers, 3 *3....	4
Poultry Husbandry.....	2		

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SECOND YEAR

Animal Husbandry, 3 †2.....	4	Animal Husbandry, 3 †2.....	4
English	2	English	2
Farm Chemistry.....	3	Farm Management, 3 *3....	4
Farm Crops.....	2	Forestry	2
Farm Engineering and Me-		Insects	2
chanics 1 *3.....	2	Poultry Husbandry.....	2
Poultry Husbandry.....	2	Small Fruit Culture and Plant	
Vegetable Gardening, 3 *3....	4	Propagation, 3 *3.....	4
Veterinary Science.....	3	Veterinary Science.....	3

Short Winter Courses in General Agriculture, Dairying, Horticulture, and Poultry Management

The short courses in general agriculture deal especially with farm crops. Special attention is given to the potato, corn, oat, and hay crops,—the preparation of seed bed, selection of seed, seeding, fertilization, culture, and harvesting. Such general subjects as drainage, maintenance of soil fertility, rotation of crops, control of weeds, etc., are considered. Potato, corn, and grain judging is made a prominent feature.

The short course in dairying is designed to meet the requirements of creamery assistants, practical farmers, herdsmen, and others who desire to learn milk testing, butter making, the principles of animal nutrition, and practices of feeding, breeding, judging stock, and the diseases of farm animals.

The short course in horticulture is offered for those who wish to acquaint themselves with the most approved methods of orchard management. Special attention will be given to such subjects as the selection of orchard sites, selecting and obtaining nursery stock, pruning, cultivation, spraying, packing, and cooperation in the fruit business. Opportunity will be given for the laboratory study of spraying, packing, planting, pruning, and grafting. An effort is made to show where money is lost and made in the fruit business.

The short course in poultry management is given each year to aid persons who wish to gain a practical knowledge of the handling of incubators and brooders, the feeding and rearing of young chicks, the general management of mature fowls, scoring, judging, killing, and

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marketing. For purposes of instruction the College of Agriculture keeps representatives of leading breeds of fowls.

Very few text-books are used in any of the courses and the expenses for board and room, which are the only other expenses, are moderate. Circulars giving the dates and programs of these courses are published each year and will be sent upon application to the College of Agriculture.

Farmers' Week

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farmers' Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. A section is arranged where home economics for farmers' wives is taught. Dates and programs may be secured each year by addressing the College of Agriculture.

Department of Agricultural Extension

This department offers correspondence courses, lecture courses, demonstration work, cooperative experiments, and extension schools in agriculture.

This work is intended to give direct help to those on the farm and in the home; to aid those who desire definite instructions in practical agriculture, animal and dairy husbandry, poultry husbandry, home economics, forestry, and horticulture. It supplements the teaching and experimenting of the College of Agriculture and the Agricultural Experiment Station. It is professedly a popular work because it endeavors to aid the farmer to solve the practical problems of the farm, to quicken agricultural work, and to inspire greater interest in country life.

Correspondence Courses

These courses are given by means of text-books and publications of the college, the U. S. Department of Agriculture, or the various experiment stations. The text-books are furnished at publishers' prices. The courses are free and may be taken by individuals, granges, reading

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circles, or other organizations. A certificate will be given to students completing any of these courses with satisfactory standing.

The following courses are offered:

- Course 1—Farm Crops and Crop Production
- Course 2—Farm Management
- Course 3—Feeding and Breeding of Farm Animals and Dairying
- Course 4—Poultry Keeping
- Course 5—Fruit Growing
- Course 7—Elementary Agriculture
- Course 8—Home Economics
- Course 9—Vegetable Gardening
- Course 10—The Business of Dairying

Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Demonstration Work

For this work members of the agricultural faculty will make demonstrations, showing, as well as telling, how to solve many practical farm problems. These demonstrations are made on the farms and are offered under the same conditions as the lectures.

The following is a practical list of the demonstrations that may be secured: home mixing of fertilizers; milk testing (use of Babcock tester); stock judging; corn and small grain judging and breeding; potato judging, breeding, and spraying; orchard spraying, pruning, and grafting; apple packing; method of killing and dressing poultry; method of determining the age of horses; methods of giving medicine to domestic animals. All demonstrations are accompanied by lectures.

Farm Demonstration Work

This form of extension service consists of practical demonstrations of farming operations, of the values of various projects, and of proper equipment in the farming business.

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The demonstration work is now established in every county in the State.

Boys' and Girls' Agricultural Clubs

The organization of junior agricultural and home economics clubs was begun in 1913, under the direction of the Extension Department, with State leaders in active charge of the field work. The club work is conducted very largely in cooperation with the schools, granges, and the Y. M. C. A. county work. It will be extended thruout the State as rapidly as possible. Local exhibits will be held the present year and the winners at these exhibits will compete later in a State contest to be held at the College of Agriculture.

Extension Schools in Agriculture

To extend the advantages of agricultural instruction to persons actively engaged in agriculture, the Extension Department will conduct a limited number of three-day schools in various parts of the State.

Correspondence

Besides the Demonstration, Correspondence, and Lecture Courses, the College of Agriculture welcomes correspondence on practical farm topics. If information is desired along lines relating to crops, fertilizers, dairy work, feeding, or orcharding and gardening, the various instructors are ready to give such assistance as they are able.

A free "Extension Bulletin," dealing with agricultural and home economics subjects, is issued at frequent intervals thruout the year. This bulletin is sent to all persons whose names appear on the bulletin mailing list and to such other persons as may apply for the same.

Circulars giving full information upon these subjects will be sent upon request.

Departments of Instruction

NOTE.—A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (‡) indicates that two and one-half hours are required. *Courses having an odd number are given in the fall semester and those having an even number in the spring semester.*

If the student so elects, he may prepare a thesis upon some subject related to his major work. The subject should be selected and approved by the head of the department before the close of the junior year.

Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are primarily for graduates.

AGRONOMY

PROFESSOR SIMMONS; ASSISTANT PROFESSOR OSLER; MR. THOMAS

Soils

1. SOILS.—Lectures and recitations on the origin, types, physical properties, moisture content, and distribution of soils, and their relation to crop production. The fundamental principles underlying soil management for soil conservation and improvement will be studied. Class room, *two hours a week*; laboratory, **three hours a week*.

3. SOIL FERTILITY.—This course deals with stable manures, green manures, commercial fertilizers, and soil amendments; also a study of soil organisms as affecting the plant food in the soil. *Two hours a week*.

52. SOIL SURVEYING AND MAPPING.—A study is made of soil types, the principles of correlation and methods of soil surveying and mapping. Class room, *two hours a week*; laboratory, **three hours a week*.

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54. SOIL FERTILITY.—Soil improvement investigation. A review of the experimental work in this country and abroad. The application of these results to soil improvement and crop production problems. Prerequisites, Courses 1 and 3. *Two hours a week.*

Crops

11. FIELD CROPS.—A laboratory course in seed and grain identification, improvement by grading, testing, selecting, and preparing seed for planting. A collection of weeds and their seeds will be required. †*Four hours a week.*

12. FIELD CROPS.—A general course including a study of the most important cereal, grass, forage, and root crops, their adaptation to systems of rotation, culture and uses, with special reference to New England conditions. Class room, *two hours a week*; laboratory, †*two hours a week.*

13. FIELD CROPS. JUDGING AND COMMERCIAL GRADING.—Comparative judging of corn, small grains, and potatoes, according to standards. A study of market grade requirements. Class room, *one hour a week*; laboratory, †*two hours a week.*

14. FIELD CROPS. CORN.—A course dealing with the production of corn and the care and marketing of the crop. Types and varieties of both field and sweet corn will be considered in this course. Class room, *one hour a week*; laboratory, †*two hours a week.*

15. FIELD CROPS. ROOTS AND TUBERS.—A course dealing with the production, storage, and marketing of roots and tubers. Class room, *one hour a week*; laboratory, †*two hours a week.*

16. FIELD CROPS. GRASSES AND FORAGE CROPS.—Lectures and laboratory work dealing with the grasses and forage plants. A study of the hay crop and markets; soiling systems, and their adaptation to local conditions. Class room, *one hour a week*; laboratory, †*two hours a week.*

18. FIELD CROPS. CROP IMPROVEMENT.—A study of the principles and methods involved in field crop improvement. The work of experiment stations in this country and abroad is reviewed. Prerequisites, Courses 11 and 12. *Two hours a week.*

62. SYSTEMATIC FIELD CROPS.—A course designed for advanced or graduate students preparing for experimental work, teaching, or plant

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breeding. Students will be expected to grow and collect material under the supervision of the department during the summer months. Prerequisite, adequate training in botany and field crops. Time must be arranged with the instructor not later than the middle of the junior year. *Two or more hours a week.*

63. SYSTEMATIC FIELD CROPS.—A continuation of Course 62. *Two or more hours a week.*

65. SEMINAR.—A study of recent literature, problems, and experiments pertaining to agronomy and farm management. *One hour a week.*

66. SEMINAR.—A continuation of Course 65. *One hour a week.*

67, 68. THESIS.—*Three hours a week.*

ANIMAL INDUSTRY

PROFESSOR CORBETT; MR. WILBUR; MR. DORSEY

Animal and Dairy Husbandry

2. TYPES AND BREEDS OF FARM ANIMALS.—A study of the types and breeds of farm animals. A course covering the history, development, and characteristics of farm animals. *Two hours a week.*

3. CARE, FEED, AND MANAGEMENT OF LIVE STOCK.—A course dealing with the selection, breeding, growing, and maintenance of horses, cattle, sheep, and swine. Prerequisites, Courses 2 and 4. *Two hours a week.*

4. LIVE STOCK JUDGING.—This course is designed to acquaint the students with the types and breed characteristics of farm animals, by use of the score card, comparative judging, and the selection of breeding stock. To be taken in connection with Course 2. †*Two hours a week.*

5. LIVE STOCK JUDGING.—A continuation of Course 4. †*Two hours a week.*

6. LIVE STOCK FEEDING.—A study in the general principles of nutrition as applied to live stock, composition of feed stuffs, comparison and use of feeding standards, calculating rations, methods of feeding for economic production. Prerequisites, Course 3, Biochemistry 1 and 2. *Two hours a week.*

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7. GENERAL DAIRYING.—Given by lectures, assigned readings, recitations, and laboratory practice. Milk; its secretion, composition, properties, pasteurization, separation; dairy practices in handling milk and cream, dairy equipment, use of common dairy machinery; preparation of starters; test of dairy products for fat (Babcock method), acidity, total solids, common adulterations, and preservatives. Class room, *two hours a week*; laboratory, †*four hours a week*.

8. BUTTER MAKING.—Lectures and laboratory practice in starter making, cream ripening, churning, and preparing butter for market. Prerequisite, Course 7. Class room, *one hour a week*; laboratory, †*six hours a week*.

9. CHEESE MAKING.—Lectures, recitations, and laboratory practice in the manufacture and curing of various types of cheese, including Cheddar and soft cheeses adapted to the New England trade. The laboratory work requires consecutive hours. Prerequisite, Course 7. Class room, *two hours a week*; laboratory, **six hours a week*.

51. DAIRY TECHNOLOGY.—A study of dairy products; dairy by-products; factory machinery and operations; certified milk; markets and marketing; educational work with dairymen. Given by lectures, recitations, assigned readings, and round table conferences. Prerequisite, Course 7. *Three hours a week*.

52. ADVANCED LIVE STOCK JUDGING AND MANAGEMENT.—A laboratory course in which the individual student gets experience in handling live stock and preparation of stock for the show ring and market. As far as possible, visits will be made to live stock farms. †*Two hours a week*.

53. ADVANCED LIVE STOCK FEEDING AND MANAGEMENT.—Nutrition and feeding experiments, as well as the methods and practices of the most successful feeders in the production of milk, meat, and the rearing of horses, are studied. Prerequisite, Course 6. *Two hours a week*.

54. ADVANCED ANIMAL BREEDING.—Principles and theories of breeding as applied to the live stock industry; study of pedigrees and records by the use of the different herd books; an economic study of the generative systems of domestic animals. Prerequisites, Course 3, and Veterinary Science 14. *Two hours a week*.

55, 56. THESIS.—*Three hours a week*.

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58. ICE CREAM MAKING.—Lectures and recitations on the history and methods of the manufacture of ice cream and ices. Laboratory practice in the manufacture of ice cream and ices. Prerequisite, Course 51. Class room, *one hour a week*; laboratory, *three hours a week*.

Poultry Husbandry

1. TYPES, BREEDS, AND MANAGEMENT OF POULTRY.—Lectures and recitations on the origin and development of the types, breeds, and varieties of fowl, ducks, geese, and turkeys; the general care, feed and management of farm poultry; the marketing of poultry products. Laboratory exercises include practice in poultry management, poultry judging, and the preparation of poultry products for market. Class room, *two hours a week*; laboratory, *†two hours a week*.

2. TYPES, BREEDS, AND MANAGEMENT OF POULTRY.—A continuation of Course 1. Class room, *one hour a week*; laboratory, *†two hours*.

3. COMMERCIAL POULTRY FARMING.—Lectures and recitations on the business of poultry farming; the systems and operations in use on large poultry farms; the planning of specialized poultry farms. Class room, *one hour a week*; laboratory, *†two hours a week*.

4. POULTRY FEEDING.—Lectures on the general principles of nutrition and digestion as applied to poultry; feeding chicks; breeding for egg production. All students are required to do practical work in feeding hens and chickens, mixing mashes and grains, and care of oat sprouter. Prerequisites, Courses 1 and 2. Class room, *two hours a week*.

5. POULTRY LITERATURE.—A study of experimental data on poultry management. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*.

6. INCUBATION AND BROODING.—Lectures and recitations on the principles of incubation and brooding. Laboratory practice in incubator and brooder management. During incubation period, extra time will be required. Prerequisites, Courses 1 and 2. Class room, *three hours a week*; laboratory, *†two hours a week*.

7. POULTRY BREEDING.—Lectures and recitations on the principles of breeding as applied to poultry; the inheritance of egg production; mating

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of exhibition stock. Prerequisites, Courses 1, 2, and 4. Class room, *two hours a week*; laboratory, *†two hours a week*.

51, 52. THESIS.—*Three hours a week*.

BACTERIOLOGY AND VETERINARY SCIENCE

PROFESSOR RUSSELL; MR. THOMAS

1. BACTERIOLOGY.—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and the study of the morphological and biological characteristics of typical bacteria. Some outside reading will be required. Required of students taking major work in Agriculture. *†Six hours a week*.

2. BACTERIOLOGY.—Similar to Bacteriology 1. Offered for students in the College of Technology and others who may elect it. *†Six hours a week*.

3. BACTERIOLOGY.—A lecture course open to all students. It should be elected by students taking Course 1 as well as by students not taking a laboratory course. Subjects considered will include the history of bacteriology; classification and biological characteristics of bacteria, bacteria in air, water, soil, and dairy products; the relation of bacteria to health and disease; immunity. *Two hours a week*.

12. VETERINARY SCIENCE.—This deals with the anatomy, physiology, and diseases of poultry. *Two hours a week*.

14. VETERINARY SCIENCE.—A combined lecture and laboratory course dealing with the anatomy and physiology of our domestic animals, and their treatment to preserve and restore health. *Three hours a week*.

15. VETERINARY SCIENCE.—A continuation of Course 14. Prerequisite, Course 14. *Two hours a week*.

16, 17. VETERINARY SCIENCE.—A clinic open to all students taking veterinary science. *One hour a week*.

19. VETERINARY SCIENCE.—Veterinary materia medica and pharmacy. *Two hours a week*.

52. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; investigation into the sources of milk bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week*; laboratory, *†four hours a week*.

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53. BACTERIOLOGY.—A study of the physiology of bacteria; bacteriological analysis of water; a study of soil bacteria. Prerequisite, Course 1 or 2. Class room, *one hour a week*; laboratory, *†four hours a week*.

54. BACTERIOLOGY.—A course which will consider such dairy experiments as the effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisite, Course 52. *†Four to six hours a week*.

55. BACTERIOLOGY.—An experimental consideration of ammonification, nitrification, and denitrification in the soil; study of relation of bacteria to soil fertility; symbiosis. Prerequisite, Course 52. *†Four to six hours a week*.

56. BACTERIOLOGY.—Lectures and reference work upon various problems relating to the different phases of sanitary milk production; relation of microorganisms to butter and cheese; discussion of the effect of various dairy operations upon quality of dairy products. Open only to students taking Course 54. Prerequisite, Course 52. *Two hours a week*.

57. BACTERIOLOGY.—Lectures and reference work upon various problems relating to bacteria and soil fertility; discussion of ammonification, nitrification, and denitrification in the soil; a consideration of symbiosis. Open only to students taking Course 55. Prerequisite, Course 53. *Two hours a week*.

101-102. BACTERIOLOGY.—This is a laboratory course for students who desire to pursue some particular line of bacteriological investigation. Open only to students who have done considerable work in bacteriology. The kind of work and the time will be arranged to suit individual students.

BIOLOGICAL AND AGRICULTURAL CHEMISTRY

PROFESSOR MERRILL

1. BIOCHEMISTRY.—Lectures and recitations on the composition of the plant; the source, nature and assimilation of plant food; fermentation, its nature, effects, and control. *Two hours a week*.

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2. **BIOCHEMISTRY.**—A continuation of Course 1. The composition of the animal body and of food materials; the adaptation of food to animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy. Class room, *three hours a week*; laboratory, †*four hours a week*.

3. **ECONOMIC GEOLOGY.**—A course in applied geology, including a general survey of our mineral resources, with special reference to the mineral fuels; the distribution and manner of occurrence of the more useful metals; the economically important nonmetallic minerals; and a study of the rocks and their uses as building stone, as road material, and as sources of lime and cement. *Two hours a week*.

5. **GEOLOGY.**—A study of the earth's history and development, with especial attention to dynamical, structural, and physiographical geology. *Three hours a week*.

6. **AGRICULTURAL CHEMISTRY.**—This course includes a study of the origin and composition of soils; the source and composition of fertilizing materials; the fixation of atmospheric nitrogen; the composition of insecticides and fungicides; the chemistry of milk and other dairy products. Prerequisite, Course 1. *Two hours a week*.

7. **BIOCHEMISTRY.**—An abridged course, including a study of the proteins, fats, and carbohydrates, the digestive enzymes and processes, the tissues and secretions of the body. Class room, *three hours a week*; laboratory, †*four hours a week*.

8. **FOOD ANALYSIS.**—A brief introduction to quantitative analysis, with laboratory practice in the analysis of foods; lectures on food adulteration and methods for its detection. Class room, *one hour a week*; laboratory, †*six hours a week*.

51. **BIOCHEMISTRY.**—Lectures and recitations on the composition of the plant; the source, nature, and assimilation of plant food; the composition of the animal body and of food materials; the adaptation of food to the animal requirements; the chemical changes involved in the digestion and assimilation of foods; respiration; absorption and liberation of energy; general metabolism; the chemical processes and methods of investigation by which these subjects are studied. Prerequisite, Chemistry 52. *Five hours a week*.

52. **BIOCHEMISTRY.**—A study of the carbohydrates, fats, and protein bodies; the digestive enzymes; the blood, muscles, bones, and other

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tissues of the body; milk, bile, and other secretions. A laboratory course designed to follow Course 51. †*Four hours a week.*

60. **AGRICULTURAL ANALYSIS.**—A course in the qualitative and quantitative analysis of fodders, fertilizers, milk, butter, and other dairy products. The course is designed for students desiring to take up experiment station and inspection work. Prerequisites, Chemistry 53 and 60. †*Eight hours a week.*

BIOLOGY

The courses in this department are described under the College of Arts and Sciences.

FARM MANAGEMENT AND AGRICULTURAL ENGINEERING

PROFESSOR SIMMONS

2. **FARM ACCOUNTING.** (a) **FARM MATHEMATICS.**—Instruction in this subject consists in the application of its principles to all kinds of farm problems where measurements of material, extension, capacity, etc., are required.

(b) **FARM RECORDS AND ACCOUNTS.**—A system of records of the various operations of the farm, such as records of field labor, crop yields, milk production in the dairy, etc.; a system of accounts showing the receipts and expenditures of the farm. †*Four hours a week.*

71. AGRICULTURAL ENGINEERING AND RURAL ARCHITECTURE.

(a) **AGRICULTURAL ENGINEERING.**—Farm surveying and leveling; the plotting of farms and measurements of land; a study of drainage; estimating the investment and returns from a system of drainage; the making of roads; road materials.

(b) **RURAL ARCHITECTURE.**—The planning, designing, location, and construction of farm buildings, water systems, sewerage, and concrete construction. Class room, *two hours a week*; laboratory, **three hours a week.*

72. **FARM MECHANICS AND MACHINERY.** (a) **FARM MECHANICS.**—A study of the simpler laws of mechanics as applied to farm implements and farm machinery.

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(b) FARM MACHINERY.—A study of machinery used on the farm, farm power, etc. Demonstrations and tests are made with various machines and implements. Class room, *two hours a week*; laboratory, **three hours a week*.

73. HISTORY AND ECONOMICS OF AGRICULTURE. (a) HISTORY OF AGRICULTURE.—A history of agriculture from early times to the present day; the beginning of British agriculture, and the development of modern agriculture; the agriculture of the United States, its influence on social conditions; the importance of our leading products, and their effect on the world's commercial life; the agriculture of different sections; the development of farm machinery; progress in agricultural education. Lectures supplemented by illustrative material and slides.

(b) ECONOMICS.—The factors of agricultural production, and their economic properties; organization of the farm; rent of farm land and the law of diminishing returns from the land; systems of distribution; a study of life in the rural communities; schools and other rural organizations. Class room, *two hours a week*; laboratory, *†two hours a week*.

74. FARM MANAGEMENT.—A study of the various types of farming, with comparison of investment and returns from each. A study will be made of the conditions under which extensive, intensive, and mixed systems of farming prosper or fail; laying out of fields and rotations of crops; investigation of cost of different farming operations; management of men and teams; markets and marketing. Farm surveys, with a detailed study of the conditions on different farms, will be made. Farm plans will be outlined to suit various conditions. Class room, *two hours a week*; laboratory, **three hours a week*.

FORESTRY

PROFESSOR BRISCOE; ASSOCIATE PROFESSOR EATON

1. ECONOMICS OF FORESTRY.—The importance and scope of the subject; the influence of forests on the conservation and distribution of water; influence on soils, topography, and public health; the relation to agriculture; stock raising, mining, railroads, manufactures, and industries in general; the character, extent and distribution of forest resources, national, state, and private. Required of all freshmen majoring in forestry, and open to all students. *Two hours a week*.

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2. WOODLOT FORESTRY.—The general principles of forestry, with special application to the farm woodlots in this region. Lectures and text-book work in elementary systems of cutting, reforestation, protection, and estimating. Open to all students. *Two hours a week.*

3. WOOD IDENTIFICATION AND USES.—The identification and classification of the economic woods of the United States, based on simple lens inspection; the technical qualities of various species, and their uses in the arts and trades; their commercial production. *Two hours a week.*

4. WOOD PRESERVATION.—Durability and seasoning of native woods; preservatives in commercial use; methods of operation and equipment of preserving plants. Special attention given to ties, posts, poles, paving-blocks, and timbers. Second half of semester. *Two hours a week.*

5. HISTORY OF FORESTRY.—The development of forestry in European countries and in the United States. Second half of semester. *Two hours a week.*

6. FOREST MENSURATION.—Continuation of study of estimating methods taken up in Course 11; study of age, growth, yield, and taper; form factors and volume tables. *Two hours a week.*

8. FOREST MENSURATION FIELD WORK.—To be taken in connection with Course 6. Use of instruments, scaling, and estimating. **Six hours a week.*

9. FOREST PRODUCTS.—Dealing with forest products other than logs and lumber, such as pulp wood, veneers, shingles, lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods, boxboards, spool stock, turpentine, tannin, gums, syrups, dye woods, and charcoal; methods of utilization, markets and values. First half of semester. *Two hours a week.*

10. FOREST PROTECTION.—Systems of fire protection practiced by the federal government, state governments, and individuals or associations; protection against atmospheric agencies, insect damages, grazing and animals, parasite plants and weeds. *One hour a week.*

11. FOREST MENSURATION.—Lectures and recitations. Instructions in the theory and application of forest measurements. Calculations and computations from data obtained in the field work. *Two hours a week.*

12. PRACTICE OF FORESTRY.—Applied systems of silviculture and management considered in relation to the commercially important species

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and types of forest in the United States; discussions of management as practiced in Europe, and the adaptation of these systems to conditions in this country. Open to forestry seniors only. *Two hours a week.*

13. FOREST MENSURATION FIELD WORK.—To be taken in connection with Course 11. Collection of data for the study of age, growth, yield, taper, and volume; determination of form factors; survey and forest map of an assigned tract. **Six hours a week.*

14. FOREST MANAGEMENT.—Construction of a working plan for a large area of forest land; map making, timber estimating, and growth studies, in connection with plans for the same. Open to forestry seniors only. **Six hours a week.*

15. SILVICULTURE.—A study of the factors concerning forest growth and the relation of trees to external environment; study of the forest as a whole; characteristics of the forest and of forest regions of the United States. Prerequisites, Biology 61, 62, 67, and 68. *Two hours a week.*

16. SILVICULTURE.—Cultural measures in the forest; thinnings, cuttings, methods of reproduction both natural and artificial; planting. *Two hours a week.*

17. SILVICULTURE FIELD WORK.—Special studies and practical work in the forest; preparation of a type map and detailed reports on silvicultural problems. To be taken in connection with Course 15. **Six hours a week.*

18. NURSERY PRACTICE.—To be taken in connection with Course 16. Tests of the germinating qualities of seeds of forest trees and a study of seedlings; problems in planting and practical work in the State Forest Nursery; practice in field planting. **Six hours a week.*

19. LUMBERING.—The lumber industry in the United States considered from the economic standpoint; an account of the methods of logging and manufacture in different regions. Text book and lectures. *Two hours a week.*

20. FOREST FINANCE.—Business principles applied to forest management. The theory of the normal forest; calculations for sustained yield and continuous revenue. Lectures, recitations, and problems. *Two hours a week.*

21. LUMBERING FIELD WORK.—To be taken with Course 19. Inspection of lumber and pulp mills in the vicinity, during the first half of the

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semester. Inspection, detailed study, and report of an assigned operation. In this work the student is expected to spend at least six ten-hour days actual work on a lumbering job in the woods. **Six hours a week.*

22. CURRENT FORESTRY LITERATURE.—A continuation of Course 23. *One hour a week.*

23. CURRENT FORESTRY LITERATURE.—Reviews of periodicals and current forestry literature; preparation of a card index under subject and author headings. Forestry seniors only. *One hour a week.*

24. FOREST POLICY.—National and state forest policy and administration; relation of government, corporations and individuals in regard to forest policies and applied forest management. Forestry seniors only. Second half of semester. *Two hours a week.*

25, 26. THESIS.—Credit of from 2 to 6 hours will be allowed students desiring to elect thesis work in forestry. Work on original problems and investigations may be undertaken with the approval of the department. Time to be arranged.

28. FORESTRY LAWS.—Laws of the federal government and of the several states concerning forests and forestry. Given in 1917-18 and alternate years. First half of semester. *Two hours a week.*

HOME ECONOMICS

PROFESSOR FREEMAN; ASSISTANT PROFESSOR BEACH

1, 2. TEXTILES AND CLOTHING.—A study of fibers and fabrics from a historic, economic, and social standpoint. The laboratory work consists of the making of plain garments, involving drafting and design, and selection of materials. Class room, *one hour a week*; laboratory, *†four hours.*

3, 4. DESIGN AND COLOR.—The object is to develop the appreciation of harmony of line, space, and color. Class room, *one hour a week*; laboratory, *†two hours a week.*

5, 6. FOODS.—A study of food composition, cost, and the principles involved in preparation. The laboratory work consists in the preparation of the various types of foods. Prerequisites, Chemistry 1 or 3, 5, 2 or 4, and 6. Class room, *two hours a week*; laboratory, *†four hours a week.*

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7. DRESS.—Economics, hygiene, design, and color are studied in their relation to dress. The laboratory work consists in designing and drafting of pattern, selection of materials, and the making of dresses. Prerequisites, Courses 1, 2, 3, and 4. Class room, *two hours a week*; laboratory, †*four hours a week*.

8. DRESS.—A continuation of Course 7. Laboratory, †*six hours a week*.

9. SANITATION.—The situation of the house regarding general surroundings; sanitary conditions in and around the house, ventilation, water supply, heating, and plumbing; the householder's interest in public sanitation and hygiene. Prerequisites, Bacteriology 1 and 3. Class room, *three hours a week*.

10. DIETETICS.—The chemical, economic, and physiological principles of human nutrition are studied. Prerequisites, Courses 5 and 6, and Biochemistry 7. Class room, *three hours a week*; laboratory, †*four hours a week*.

11. FOODS.—Problems in the preparation and serving of foods. A continuation of courses 5 and 6. Class room, *one hour a week*; laboratory, †*four hours a week*.

12. HOUSEHOLD MANAGEMENT.—A study of economic and social principles of the household; organization of the household; division of income, labor, household processes; care of the household. Open to seniors. Class room, *three hours a week*; laboratory, †*two hours a week*.

13. HANDWORK.—Historical and social development of textile industry from primitive man to modern times. Prerequisites, Courses 1 and 2. Laboratory, †*four hours a week*.

14. NURSING.—Personal hygiene; the practical application of bacteriology and physiology in health and disease; the care of the baby; first aid to the injured. Prerequisites, Bacteriology 1 and 3, and Biology 5. *Two hours a week*.

16. TEACHERS' COURSE.—Methods of presenting the work and its correlation with other subjects. Practice in planning courses of study and equipment. Open to seniors. *Three hours a week*.

17. HOUSE CONSTRUCTION AND FURNISHING.—The evolution of the house, of house furnishings, their color, design, and cost. The laboratory work consists in the planning of the house, making plans and esti-

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mates for house furnishings, and visiting shops. Also the designing and making of accessories in furnishing and decorating the house. Prerequisites, Courses 1, 2, 3, and 4. Class room, *one hour a week*; laboratory, *†four hours a week*.

18. HOUSE CONSTRUCTION AND FURNISHING.—A continuation of Course 17. Class room, *one hour a week*; laboratory, *†four hours a week*.

19, 20. THESIS.—Different phases of home economics. Individual problems. Open to seniors. *Two to four hours a week*.

HORTICULTURE

PROFESSOR BROWN; MR. MULLER

1. COMMERCIAL POMOLOGY.—A course in methods of picking, grading, packing, storing, and marketing fruit. The laboratory work of this course will acquaint the student with the more important varieties of fruit in this State. Class room, *two hours a week*; laboratory, *†two hours a week*.

2. PRACTICAL POMOLOGY.—A study of orchard sites and soils, methods of propagating, setting, cultivating, fertilizing, pruning, and spraying. Class room, *two hours a week*; laboratory, **three hours a week*.

3. SYSTEMATIC POMOLOGY.—A systematic study of the types and varieties of the leading groups of fruits, their evolution and adaptation to environment; also distribution of varieties in the State. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *†two hours a week*.

4. VEGETABLE GARDENING.—A course in practical vegetable gardening; grading, marketing, and storing of vegetables, including the systematic study of varieties and types for home and commercial use. Class room, *two hours a week*; laboratory, *†two hours a week*.

5. LANDSCAPE GARDENING.—A study of the principles of landscape art and of the materials used in making landscape pictures. Special attention is given to the improvement of the home grounds. Class room, *two hours a week*; laboratory, *†two hours a week*.

7. GENERAL FLORICULTURE.—A study of the culture, propagation, management, and care of flowers for commercial purposes. Methods

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of producing, shipping, marketing, and designing, will be considered. Class room, *two hours a week*; laboratory, †*two hours a week*.

8. GREENHOUSE CONSTRUCTION.—A study of the various types of greenhouses and the methods of construction. Estimates and plans are made for houses suitable for conservatories, private estates, and commercial floriculture. Cost and methods of installing heating systems, show rooms, and storage houses are also considered. Class room, *two hours a week*; laboratory, †*two hours a week*.

9. SMALL FRUIT CULTURE.—A study of the bush and vine fruits, including strawberries; adapted varieties; methods of propagation, culture, harvesting, and marketing. Class room, *two hours a week*; laboratory, †*two hours a week*.

10. PLANT BREEDING.—A course in plant breeding, as applied to variation, selection, and hybridization, adapted to garden and fruit crops. Prerequisite, Biology 3. *Two hours a week*.

11, 12. THESIS.—*Three hours a week*.

51, 52. SEMINAR.—Preparation and discussion of papers dealing with the recent problems and experiments in horticulture. Required of students taking major work in Horticulture. Prerequisites, Courses 1 and 2. *One hour a week*.

54. FLORICULTURE.—A course designed to give practical knowledge of the propagation and culture of annuals, herbaceous perennials, bulbs, roses, bedding plants, and other garden plants, with especial reference to care of public parks and private estates. Class room, *two hours a week*; laboratory, †*two hours a week*.

55. FRUITS AND VEGETABLES UNDER GLASS.—A study of the various fruits and vegetables that are grown under glass. A course suited to the needs of either commercial work or private estates. Prerequisites, Course 1. Class room, *two hours a week*.

56. PLANT DISEASE CONTROL.—A course designed to acquaint the student with the various kinds and types of spray machinery, and with the preparation and application of the various sprays used in disease control. Prerequisites, Courses 1 and 2. Class room, *one hour a week*; laboratory, †*two hours a week*.

College of Arts and Sciences

FACULTY OF INSTRUCTION

JAMES STACY STEVENS, M. S., LL. D., *Dean, Professor of Physics, and Acting Head of the Department of English*

LUCIUS HERBERT MERRILL, Sc. D., *Professor of Biological and Agricultural Chemistry*

JAMES NORRIS HART, C. E., M. S., Sc. D., *Professor of Mathematics and Astronomy*

JOHN HOMER HUDDILSTON, Ph. D., *Professor of Greek Civilization*

JACOB BERNARD SEGALL, Ph. D., *Professor of French*

GEORGE DAVIS CHASE, Ph. D., *Professor of Latin*

CAROLINE COLVIN, Ph. D., *Professor of History*

WALLACE CRAIG, Ph. D., *Professor of Philosophy*

GARRETT WILLIAM THOMPSON, Ph. D., *Professor of German*

GUY ANDREW THOMPSON, Ph. D., *Professor of English Literature*

WINDSOR PRATT DAGGETT, Ph. B., *Professor of Public Speaking*

MINTIN ASBURY CHRYSLER, Ph. D., *Professor of Biology*

GEORGE WARE STEPHENS, Ph. D., *Professor of Economics and Sociology*

ANDREW PAUL RAGGIO, Ph. D., *Professor of Spanish and Italian*

*ROY FRANKLIN RICHARDSON, Ph. D., *Professor of Education*

CHARLES WILSON EASLEY, Ph. D., *Professor of Chemistry*

LEON ELMER WOODMAN, Ph. D., *Associate Professor of Physics*

*HARLEY RICHARD WILLARD, A. M., *Associate Professor of Mathematics*

ALICE MIDDLETON BORING, Ph. D., *Associate Professor of Zoology*

JAMES MCCLUER MATTHEWS, A. M., *Associate Professor of Economics and Sociology*

*On leave of absence without pay

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DANIEL WILSON PEARCE, A. M., *Associate Professor of Education*

*LOWELL JACOB REED, M. S., *Associate Professor of Mathematics*

HARRY NEWTON CONSER, M. S., M. A., *Assistant Professor of Botany*

*RALPH MAYNARD HOLMES, M. A., *Assistant Professor of Physics*

FRANÇOIS JOSEPH KUENY, L és L., *Assistant Professor of French*

*WILLIAM SAMUEL KREBS, M. A., *Assistant Professor of Economics and Sociology*

WARREN WHITTEMORE REED, A. M., *Assistant Professor of English*

HARRY GILBERT MITCHELL, A. M., *Assistant Professor of Chemistry*

*ALBERT AMES WHITMORE, B. S., *Assistant Professor of History*

LESTER FRANK WEEKS, B. S., *Assistant Professor of Chemistry*

CHARLES HOWARD BATCHELDER, M. S., *Assistant Professor of Zoology*

BERTRAND FRENCH BRANN, M. S., *Assistant Professor of Chemistry*

MYRON OWEN TRIPP, Ph. D., *Assistant Professor of Mathematics*

ADELBERT WELLS SPRAGUE, A. M., *Director of Music*

MARGARET JUNE KELLEY, B. A., *Instructor in German*

JAMES APPLEBY DIBBLEE, *Instructor in English*

MAYNARD FRED JORDAN, B. A., *Instructor in Mathematics*

JOAQUÍN MÉNDEZ-RIVAS, Abogado, *Instructor in Spanish*

GEORGE ALVIN SCOTT, B. S., *Instructor in Physics*

QUENTIN WEAVER STAUFFER, Ph. B., *Instructor in Mathematics*

WALTER CHRISTOPHER STONE, B. S., *Instructor in Chemistry*

SAMUEL VASCONCELOS, Abogado, *Instructor in Spanish*

PAUL DECOSTA BRAY, B. S., *Assistant in Chemistry*

ELLWOOD IRVIN CLAPP, B. S., *Assistant in Chemistry*

WILLIAM DAVID FULLER, A. M., *Lecturer on School Administration*

GENERAL INFORMATION

The College of Arts and Sciences offers a course of liberal training equivalent to that of the standard New England college. It designs particularly to meet the needs of three classes of students:

*On leave of absence without pay

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1. Men and women who desire to pursue a cultural college course.
2. Men and women who desire to enter professional schools.
3. Men and women who plan to fit themselves for the profession of teachers in secondary schools, or for school superintendencies.

ADMISSION

The requirements for admission are given in full elsewhere in the catalog. They are practically the same as for other New England colleges and may be met by a four-year preparatory course in a good high school or academy.

FRESHMAN STUDIES

The character of the work of the first year is conditioned somewhat upon the subjects offered for admission.

It is recommended that all students in this college register for as much of the required work as practicable in their freshman year, and they are expected to complete the whole of this work by the end of their sophomore year.

MAJOR SUBJECT

During the freshman year the student does not select a major subject and the registration is largely prescribed.

Beginning with the sophomore year each student must select, in some one department, work to be pursued three or four years, on the average of five recitations a week. Any one of the following departments may be chosen for major work: Biology, (including Zoology, Botany, Physiology, and Entomology), Chemistry, Economics and Sociology, Education, English, French, German, Greek and Classical Archeology, History, Latin, Mathematics and Astronomy, Philosophy, Physics, Spanish and Italian.

The major subject must include work counting not less than thirty nor more than fifty hours. In the case of departments in which less work is offered than amounts to thirty hours, this must be made up from such other related departments as the professor under whose direction the major subject is taken may prescribe. The remainder of the student's

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work may be selected from any department or departments of the university. This must be done with the approval of the head of the department in which the student has chosen his major subject and must bear some useful relation to his other work.

The head of the department in which the student has chosen his major subject becomes his major instructor, and during the remainder of the course this instructor acts as chief adviser in all matters relating to the curriculum, and is the representative of the student before the faculty.

GRADUATION REQUIREMENTS

The College of Arts and Sciences has the following graduation requirements:

Every candidate for the Bachelor of Arts degree is required to complete the following amount of work in college: (a) eight hours prescribed in English; (b) ten or sixteen hours elected in Group 1, of which six or ten hours must be in foreign languages; (c) ten hours elected in Group 2; (d) ten hours elected in Group 3; (e) military science and tactics, two years, three hours a week; (f) physical training, one year, two hours a week.

A student who enters college with a minimum of four units in foreign languages is required to elect sixteen hours in Group 1, of which at least ten hours shall be in foreign languages. A student who enters with more than the minimum of four units credit is required to elect at least ten hours in Group 1, of which at least six hours shall be in foreign language.

1. LANGUAGE GROUP.—This is composed of courses in language and literature, including all the courses offered in the departments of English, Public Speaking, German, French, Spanish and Italian, and such courses offered by the departments of Greek and Latin as deal with the Greek and Latin languages and literatures, or presume some knowledge of these languages.

2. SCIENCE AND MATHEMATICS GROUP.—This is composed of the courses offered in mathematics and the biological and physical sciences, including all the courses offered by the Departments of Mathematics, Biology, Chemistry, Biological Chemistry, and Physics.

3. SOCIAL SCIENCE GROUP.—This is composed of the courses offered in the Departments of History, Economics and Sociology, Philosophy,

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Education; and the courses in Bibliography, History, Archeology, Fine Arts, Music, and Biblical Literature offered in other departments and not included in the first group.

4. MILITARY SCIENCE AND TACTICS, two years, three hours a week.
5. PHYSICAL TRAINING, one year, three hours a week.

GENERAL LECTURE COURSE

A course of weekly lectures is given in the College of Arts and Sciences each semester. Attendance is open to all, and credit is granted when the course is completed. This year, the lectures will be in charge of the Departments of History and Economics and Sociology in the fall semester, and the Departments of Mathematics and Physics in the spring semester.

INFORMATION CLUB

This is a club composed of students in the College of Arts and Sciences who are willing to spend an hour a week in the discussion of some topic of general interest. Leaders are selected from the faculty of this college. The attendance is voluntary and no credit is given for this work.

PROGRAM FOR SECONDARY SCHOOL TEACHERS LEADING TO A STATE CERTIFICATE

The College of Arts and Sciences of the University of Maine has arranged a program for the professional training of secondary school teachers, which will entitle those who complete it a professional state certificate for secondary school teachers. The program has been arranged in conference with the State Superintendent of Public Schools and has his endorsement.

In addition to fulfilling the general requirements leading to the degree of Bachelor of Arts, the student is expected to complete six hours in Psychology in the sophomore year as a prerequisite to twelve hours work in Education in the junior and senior years, thirty hours in a major subject, and from ten to twenty hours in a minor subject. The prescribed work in Education includes three hours in the History of Education, three

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hours in the Principles of Secondary Education, three hours in Technique of Teaching, and three hours to be elected from the three following subjects: Adolescence, Pedagogy and Psychology of High School Subjects, and Practice Teaching.

The selection of a major subject to which the student devotes 30 hours and a minor subject to which he devotes from 10 to 20 hours is designed to equip him for teaching two subjects related to high school. Usual combinations of high school subjects are English and history, Latin and history, English and Latin, Latin and modern languages, mathematics, and physics, physics and chemistry. For the completion of this course a high standard of scholarship is required. All the prescribed work must be of "C" grade or above. Upon completing this course the student will receive a Professional Secondary Certificate from the State Department of Public Instruction which will designate the major and minor subjects which he has pursued. A special certificate will also be issued by the university which will give a detailed outline of the student's record.

BACHELOR OF ARTS CURRICULA

The work in the College of Arts and Sciences leads to the degree of Bachelor of Arts (B. A.). The curricula demand 125 hours and are regularly completed in four years, but a student of exceptional preparation and application may complete the requirements in three years by attending one or more summer terms. Students fitting themselves for professional or technical schools are often encouraged to do this, but prospective teachers are recommended to spend four years in college.

No outlines of the curricula in the College of Arts and Sciences are given in the catalog, but students may have an outline presented to them by applying to the professor in charge of the department in which they are interested. Groups of studies may be made up which would be desirable for students intending to prepare for teaching, or to enter upon the study of law, medicine, or theology.

In this college, 95 out of the 125 required hours must be made with a grade of C or above.

BACHELOR OF PEDAGOGY CURRICULA

Graduates of the Maine normal schools who have completed a course in a Class A high school, and who have had one year of successful

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experience in teaching, are admitted to the university as candidates for the degree of Bachelor of Pedagogy. Such students are required to complete, with high grade, seventy-five semester hours, of which twelve shall be in the Department of Education, and a sufficient number of the remaining hours shall be devoted to some one department to give them a satisfactory equipment for high school teaching.

CURRICULUM IN JOURNALISM

The university maintains a Curriculum in Journalism, which extends over four years and includes the following subjects:

Freshman year, English, French, German, or Spanish; Science—Physics, or Chemistry, or Biology; English, 18th and 19th Century Prose; Bibliography; History and Government; Military and Physical Training. Sophomore year, Elements of Economics, Elements of Politics, Money and Banking; History of English Literature; English History, American History, Medieval History; Science; Victorian Literature; Military and Physical Training. Junior year, Commerce, European Governments; Democracy; History of the United States; History of American Literature; Shakespeare, or History of the English Drama; Journalism; Elective, Science, or Language, or Philosophy, or Art, three hours. Senior year, Sociology, Social Pathology, American Government, Labor Problems; Specialized Writing; Recent History; Literary Criticism; Journalism; Elective, Language, Philosophy, History of Education, or Art, five hours.

Students who complete this curriculum will receive the Bachelor of Arts degree for major work in English.

COMBINED ARTS AND LAW CURRICULA

Students who have completed the junior year in the College of Arts and Sciences are permitted to enter the College of Law and are given the degree of B. A. after one year, and LL. B. after two additional years' work. Such students are required to conform to the Arts requirements in English, modern languages, and science; to take 30 hours in the Social Science group; and to complete 15 hours in some definite subject.

Students who can spend but two years in college before being admitted to the College of Law should register as regular freshmen in the College of Arts and Sciences. Their work should include Latin, English,

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French or German, public speaking, brief writing, rhetoric, and perhaps courses in journalism. They should also study ancient and modern, European, English, and especially American history, as well as economics, logic, and psychology, the latter in its relation to criminal law.

COMBINED ARTS AND MEDICAL CURRICULA

The marked increase in the number of pre-medical students in attendance at the university has led to the establishment of definite programs of work for such students. Two years pre-medical work in an Arts college is rapidly becoming the standard requirement for medicine, and with this in view the two-year course has been arranged, which includes the preparatory subjects required by the majority of medical schools. The three-year course has been arranged in connection with an agreement with certain medical schools, which provides that a student who completes three years at this institution may enter the medical school, and receive his bachelor's degree here at the completion of his first year at the medical school. A four-year course will be arranged to meet the needs of students who wish a broader academic training before beginning their distinctly medical studies. Three or four years of academic work are strongly recommended to the prospective student.

Two-year Course

FIRST YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
General Biology.....	4	General Biology.....	4
General Chemistry.....	4	General Chemistry.....	5
English	2	English	2
German (or French).....	5	German (or French).....	5
Military	1	Military	1
Physical Training.....	½	Physical Training.....	1

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SECOND YEAR

Vertebrate Anatomy.....	4	Animal Embryology.....	4
Qualitative Analysis.....	5	Organic Chemistry.....	5
General Physics.....	3	General Physics.....	3
Laboratory Physics.....	2	German	2
German	3	English	3
Military	1	Animal Histology.....	4
		Military	1

Three-year Course

FIRST YEAR

General Biology.....	4	General Biology.....	4
General Chemistry.....	4	General Chemistry.....	5
English	2	English	2
German (or French).....	5	German (or French).....	5
Military	1	Military	1
Physical Training.....	½	Physical Training.....	1

SECOND YEAR

Vertebrate Anatomy.....	4	Animal Embryology.....	4
Qualitative Analysis.....	5	Organic Chemistry.....	5
General Physics.....	3	General Physics.....	3
Laboratory Physics.....	2	German	2
German	3	Military	1
Military	1		

THIRD YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Animal Physiology.....	4	Animal Histology.....	4
Genetics	2	English	3
English	3	Elective	2
Scientific German.....	2	Scientific German.....	2
Psychology	3	Social Psychology.....	2
Sociology	3	Social Pathology.....	3

Departments of Instruction

NOTE: A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit; a double dagger (‡) indicates that two and one-half hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are primarily for graduates.

ASTRONOMY

PROFESSOR HART

10. DESCRIPTIVE ASTRONOMY.—An elementary course. The textbook is supplemented by informal lectures, illustrated by lantern slides, drawings of celestial objects, and work in the observatory. Open to all students. *Three hours a week.*

15, 16. GENERAL ASTRONOMY.—Designed for general culture and for students in mathematics and physics. Recitations, lectures, solutions of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. *Three hours a week.* Given in 1917-18 and alternate years.

57. PRACTICAL ASTRONOMY.—A course arranged to meet the needs of engineering students, and consisting mainly of problems in the conversion of time, the determination of terrestrial latitudes, and the establishment of meridian lines. The data for these problems are taken largely from the students' own observations, and the course is intended to emphasize the necessity of careful work in the field, as well as accurate and

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well arranged computations. The instruments employed are the sextant, artificial horizon, portable chronometer, theodolite, vertical circle, astronomical transit, and zenith telescope. Open to students who have taken Mathematics 1, 3, and Astronomy 10. *Two hours of recitations or lectures and two hours of observatory work a week.*

59, 60. PRACTICAL ASTRONOMY.—The theory and use of the sextant, universal instrument, zenith telescope, transit, and equatorial. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10, and, preferably, 15, 16, or 57. *Three hours a week.* Given in 1916-17 and alternate years.

62. HISTORY OF ASTRONOMY.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

BIBLIOGRAPHY

PROFESSOR —————

2. BIBLIOGRAPHY.—Origin of the alphabet; development of writing; inscriptions; manuscripts; invention of printing; early printed books; modern bookmaking; bookbinding and the care of books; library processes and aids; public documents; periodicals; libraries, ancient and modern. A lecture course, with collateral reading and reference work. *One hour a week.*

Three lectures are given on The Library and its Uses; Classification and the Catalog; and reference Books and their Use. Required of all freshmen.

BIOLOGY

PROFESSOR CHRYSLER; ASSOCIATE PROFESSOR BORING; ASSISTANT PROFESSOR CONSER; ASSISTANT PROFESSOR BATCHELDER

GENERAL BIOLOGY.—Course 1, General Zoology, together with Course 2, General Botany, comprise a year's work in General Biology. After completing Courses 1 and 2 a student may specialize on either the botanical or the zoological side of Biology. The science requirement in the College of Arts and Sciences may be met by taking Courses 1, 2, and 7.

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1. GENERAL ZOOLOGY.—The fundamental principles of animal life, illustrated by examples from the principal groups, and including some work on the anatomy and physiology of higher animals. Required of students taking the Curricula in Agriculture and Forestry, and Pre-medical work. Class-room, *two hours a week*; laboratory, †*four hours a week*.

2. GENERAL BOTANY.—The fundamental principles of plant life, illustrated by examples from the various groups, with special attention to the seed plants. Required of students taking the Curricula in Agriculture, Forestry, and Home Economics, and Pre-medical work. Pre-requisite, Course 1. Class-room, *two hours a week*; laboratory, †*four hours a week*.

5. ELEMENTARY PHYSIOLOGY.—The anatomy, physiology, and hygiene of higher animals, especially applied to man. Required of students taking the Curriculum in Home Economics. Class-room, *two hours a week*; laboratory, †*four hours a week*.

7. PRINCIPLES OF BREEDING, OR GENETICS.—A general treatment of the facts that form the basis of our knowledge of inheritance. Pre-requisites, Courses 1 and 2. *Two or three hours a week*.

8. ENTOMOLOGY.—A study of the structure, life-histories, and classification of insects, illustrated by common farm and forest species; the special insect pests of farm, garden, orchard, and forest, and of domestic animals; methods of control. Some work on animal parasites other than insects is included. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, †*four hours a week*.

9. PLANT TAXONOMY AND HISTOLOGY. 10. PLANT PHYSIOLOGY AND PATHOLOGY.—A combined course for one year for students in Agriculture, consisting of: practice in the identification of the higher plants; microscopic work on the cell, tissues, and organs of the higher plants; a study of the functions of plants, including nutrition, growth and response; a study of the diseases of plants, especially those caused by fungi. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, †*six hours a week*.

NOTE. Pharmaceutical botany is given in Courses 14 and 15, which are designed to meet the needs of students in Pharmacy, according to the syllabus of the National Committee.

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14. **ELEMENTARY BOTANY.**—The fundamentals of the subject. Required of Two-year Pharmacy students. Class-room, *one hour a week*; laboratory, *†four hours a week*.

15. **PHARMACEUTICAL HISTOLOGY.**—The technic of preparation and study of the tissues of the higher plants. Prerequisite, Course 14. Class-room, *one hour a week*; laboratory, *†four hours a week*.

17. **WOOD IDENTIFICATION.**—The identification of the various commercial woods by means of the unaided eye and the microscope. Open to students in Chemical Engineering, and to others by permission. *†Four hour a week* (counts one credit hour). Second half of fall semester. Not given in 1917.

51. **VERTEBRATE ANATOMY.**—A comparative study of the organ systems of vertebrates, with the dissection of the dogfish and cat. Prerequisites, Courses 1 and 2. Class room, *two hours a week*; laboratory, *†four hours a week*.

52. **ANIMAL EMBRYOLOGY.**—A study of the fundamental principles of development, and the formation of organ systems and tissues in vertebrates. Laboratory work on fish, frog, and chick. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

53. **ADVANCED ANIMAL PHYSIOLOGY.**—A study of the activities of cells and organ systems, with experimental work on the muscles, nerves, circulation, etc., in frog and man. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

54. **ANIMAL HISTOLOGY.**—A study of the structure of protoplasm, cells, and tissues; practice in microscopical technique. Prerequisite, Course 51. Class-room, *two hours a week*; laboratory, *†four hours a week*.

56. **VERTEBRATE ANATOMY.**—A continuation of Course 51, for the dissection of other types, especially a bird and a reptile. Prerequisite, Course 51. Laboratory, *†four to †eight hours a week*.

57, 58. **ECONOMIC ENTOMOLOGY.**—A further study of economic insects and entomological problems, varying according to the needs of the students. Prerequisite, Course 8. Laboratory, *†four to †eight hours a week*. Omitted 1917-18.

61. **PLANT HISTOLOGY.**—The microscopic structure of the higher plants; the cell; the various tissues; the root, stem, leaf, and spore-bear-

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ing organs; the adaptations of plants to external conditions, considered from the standpoint of structure; killing, sectioning, staining, and mounting of plant tissues. Prerequisites, Courses 1 and 2. Class-room, *two hours a week*; laboratory, *†four hours a week*.

62. PLANT PHYSIOLOGY.—The plant is considered from the standpoint of its activities; absorption and transport of raw material; manufacture, transport, and storage of food; growth; movement in response to stimuli. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, *†four hours a week*.

63. PLANT TAXONOMY AND MORPHOLOGY.—The identification of seed-plants by the use of a manual; the structure and relationships of vascular plants from the evolutionary standpoint. Prerequisite, Course 61. Class-room, field and laboratory work; *time to be arranged*, giving four units. Omitted in 1917.

64. PLANT ECOLOGY.—Presents briefly two aspects of the subject: (1) physiographic ecology studied in the field as far as the season permits; (2) structural ecology, viz., the histological features characteristic of plants growing in extreme habitats, and of those having special modes of nutrition. Prerequisite, Course 9 or 61. Class-room, *one hour a week*; laboratory, *†four hours a week*. Given in 1917-18 and alternate years.

66. PLANT PATHOLOGY.—The diseases of plants, especially those caused by fungi; destruction of timber by fungi; methods of combating plant diseases. Prerequisite, Course 61. Class-room, *two hours a week*; laboratory, *†two hours a week*. Given in 1916-17 and alternate years.

67, 68. FOREST BOTANY.—A systematic study of the trees of North America. Class-room, *two hours a week*; laboratory, *†four hours a week*. Prerequisites, Courses 1 and 2.

71, 72. SEMINAR.—Preparation and discussion of papers dealing with recent advances in zoology and botany. Open to seniors and graduate students. *One hour a week*. Omitted in 1917-18.

73, 74. THESIS.—Students in the College of Agriculture specializing in biology may prepare a thesis on some subject approved by the head of the department. *Time varies*.

75, 76. ADVANCED ZOOLOGY.—This course offers an opportunity for special zoological work along lines suited to the future plans of the

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student. It may consist of field work, laboratory work, or reading, or a combination of all three. In general each student is given a problem for investigation and encouraged to devise methods for its solution. *The time varies and the work may be continued a number of semesters.*

77, 78. **ADVANCED BOTANY.**—This course offers an opportunity for special work in botany along the lines best suited to the future plans of the student. It may consist of laboratory work, field work, or reading, or a combination of all three. Courses which have recently been given under this caption include: morphology of pteridophytes; structure and technology of woods; structural and physiographic ecology; advanced plant physiology; special problems assigned to individuals. *The time varies and the work may be continued a number of semesters.*

CHEMISTRY

*The courses in this department are described under the
College of Technology*

ECONOMICS AND SOCIOLOGY

PROFESSOR STEPHENS; ASSOCIATE PROFESSOR MATTHEWS

1a. **ELEMENTS OF ECONOMICS.**—An introductory course dealing with the general principles and problems of modern economic activity, production, distribution, and consumption; value, commerce, labor problems, and various other topics in this field of study. *Three hours a week.*

1b. **ELEMENTS OF ECONOMICS.**—In general, similar to 1a, but abbreviated and modified to meet the needs of technical and agricultural students. *Two hours a week.*

2a. **MONEY AND BANKING.**—A course introductory to the study of money, banking, and finance. The history of currency and banking in the United States and other leading countries of the world. *Three hours a week.*

2b. **MONEY AND BANKING.**—Essentially similar to 2a, but planned especially for students in the Colleges of Technology and Agriculture. *Two hours a week.*

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3. **ELEMENTS OF POLITICS.**—An introductory course dealing with the basic principles of government, nature of the state, sovereignty, liberty, governmental structures, political parties. *Two hours a week.*

6. **BUSINESS LAW.**—The legal principles of modern business; contracts, agency, corporations, partnerships, bailments, guaranty, insurance. This course is intended primarily for seniors. *Three hours a week.*

9, 10. **ACCOUNTING.**—Principles and conventions of single and double entry bookkeeping; the keeping of accounts of mercantile, industrial, and financial business; the construction and interpretation of corporation accounts, balance sheets, and income statements; auditing, cost finding, depreciation, and the accountancy of investments. Lectures, discussion, and laboratory practice. *Three hours a week.*

52. **PUBLIC FINANCE.**—Various systems for the collection of public revenue in America and Europe; governmental budgets; taxation,—incidence and shifting, general property, customs and excises, mortgage, insurance, income, inheritance, corporation, single tax. *Three hours a week.*

55. **GENERAL SOCIOLOGY.**—The principles underlying normal social processes and relations; societal development and selection. *Three hours a week.*

56. **SOCIAL PATHOLOGY.**—The dependent, defective, and delinquent classes; their causes, magnitude, methods of prevention, and amelioration. *Three hours a week.*

57. **CORPORATION FINANCE.**—The promotion, financiering, incorporation, and capitalization of industrial and public utility corporations in the United States; their organization and securities, relations of stockholders and directors; analysis of reports; stock speculation; receiverships and reorganizations; methods of consolidation. *Two hours a week.* Given in 1918-19 and alternate years.

59. **INSURANCE.**—The relations of insurance and risk to modern business organization; the principles of life, fire, marine, and other forms of property insurance; types of policies: rate making; types of company organization; investments of insurance companies; insurance competition. *Three hours a week.* Given in 1918-19 and alternate years.

63. **GOVERNMENTS OF EUROPE.**—A comparative study of the modern governments of the principal countries of Europe; party development and

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current problems national and local. *Three hours a week.* Given in 1917-18 and alternate years.

66. MUNICIPAL GOVERNMENT.—The forms of government and the principal problems of American and European cities; recent movements for social and civic betterment. *Two hours a week.* Given in 1917-18 and alternate years.

68. AMERICAN GOVERNMENT.—The principles and interpretation of the American federal, state, and local governments; the study of American problems and the growth of political parties. *Three hours a week.* Given in 1918-19 and alternate years.

71. LABOR PROBLEMS.—The evolution of organized labor; present-day industrial problems of trade unions, woman and child labor, immigration, employers' associations, agencies of industrial peace. *Three hours a week.* Given in 1917-18 and alternate years.

74. TRANSPORTATION.—The historical development of transportation in the United States; railway organization, financing, rate-making; public regulation and ownership of railroads in leading European countries; federal and state legislation and regulation. *Three hours a week.*

75. BUSINESS ORGANIZATION.—The origin and development of the corporation; significance of large-scale enterprise; the economic and legal aspects of business combinations; governmental regulation. *Three hours a week.*

76. BUSINESS MANAGEMENT.—The methods of business; system; efficiency; cost accounting; principles of buying and selling. *Three hours a week.* Given in 1917-18 and alternate years.

79. INTERNATIONAL LAW.—The nature, sources, evolution, and recent modification of international law; significance of the Great War; the position and influence of the United States. *Three hours a week.* Given in 1918-19 and alternate years.

82. RURAL SOCIOLOGY.—The social factors affecting country life; the economics of farming; rural co-operative organizations; the movement for the improvement of rural life. *Two hours a week.* Given in 1918-19 and alternate years.

85. AMERICAN COMMERCE.—American commercial relations with foreign countries; the development of foreign trade; the problems and

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methods of international business. Spanish America is treated the first half-year. *Two hours a week.*

86. AMERICAN COMMERCE.—A continuation of Course 85, with emphasis on American trade relations with the countries of Europe and the Far East. *Two hours a week.*

87. AMERICAN DIPLOMACY.—A review of a century of American diplomatic relations; famous treaties and prominent men and administrations connected with such negotiations. Pan-American diplomacy constitutes the subject of study the first semester. *Two hours a week.* Given in 1917-18 and alternate years.

88. AMERICAN DIPLOMACY.—A continuation of Course 89, chief attention being given to diplomatic relations with the countries of Europe and the Orient. *Two hours a week.* Given in 1917-18 and alternate years.

89. THE FAMILY.—An historical consideration of the origin and development of the family; the legal and economic relations of its members; its significance as an institution; its pathological manifestations. *Two hours a week.* Given in 1917-18 and alternate years.

91. ECONOMIC THEORY.—A critical study of modern theories of wealth and its distribution; the contributions to theory of the classical, historical, and Austrian schools; current writers. *Two hours a week.*

93, 94. SEMINAR IN AMERICAN GOVERNMENT.—Given at the option of the instructor to a limited number of students who have shown special ability in the study of American government. *Two hours a week.*

95, 96. SEMINAR IN ECONOMICS.—Extended original investigation upon some specific topic to be selected, by students properly qualified to engage in economic research. *Two hours a week.*

Summer Term

PROFESSOR STEPHENS; ASSOCIATE PROFESSOR MATTHEWS

1s. ELEMENTS OF ECONOMICS.—An introductory course dealing with the general principles and problems of modern economic activity; production, distribution, and consumption of wealth; value, commerce, labor problems, and various other topics in this field of study.

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6s. **BUSINESS LAW.**—The legal principles of modern business; contracts, agency, corporations, partnerships, bailments, guaranty, insurance.

56s. **SOCIAL PATHOLOGY.**—A study of the dependent, defective and delinquent classes; the causes, magnitude, methods of ameliorating and preventing poverty, degeneration, and crime.

68s. **AMERICAN GOVERNMENT.**—The principles and interpretation of the American federal, state, and local governments; the growth of parties and the study of current American political problems.

70s. **INTERNATIONAL RELATIONS.**—The nature, sources, and evolution of international law; the present war; position and influence of the United States; bearing of commerce on international relations; historical and social factors in war and peace; the World Peace Movement.

75s. **BUSINESS ORGANIZATION.**—The origin and development of the corporation; pools, trusts, holding companies, amalgamations; significance of large-scale enterprise; the economics and legal aspects of business combinations; governmental regulation.

EDUCATION

PRESIDENT ALEY; ASSOCIATE PROFESSOR PEARCE; MR. FULLER

The Courses in Education are arranged to begin the junior year. Courses in Philosophy 51 and 52 taken during the sophomore year are a prerequisite to all courses in education, which are taken to secure credit for the professional secondary certificate. By special permission the beginning courses in education may be taken in connection with the beginning work in philosophy. Education courses 51, 52, and 77 or 78 are constant requirements for the professional secondary certificate. In addition, to secure this certificate it is necessary for the student to elect one of the following courses: Education 75 or 76, Education 84, or Education 71.

51. **HISTORY OF EDUCATION.**—A consideration of the development of education from primitive times to the present. The following topics are studied: the earliest education; education among the Greeks and Romans; education during the middle ages; the influence of the Reformation on the development of school systems and practices, the development of modern social forces, the consequent gradual secularization of education, the

revolutionary developments during the nineteenth century in school systems and practices. Special attention is given to the development of the secondary schools from the Greek to the present, emphasizing the American Latin academies and high schools in comparison with their European counterparts. *Three hours a week.*

52. PRINCIPLES OF SECONDARY EDUCATION.—A study will be made of the fundamental conception of the secondary school and its differentiation and relation to other institutions; the adolescent; the course of study; the equipment; social problems and the direction of student activities; organization and management of the secondary school. *Three hours a week.*

54. CONTEMPORARY MOVEMENTS IN EDUCATION.—A critical examination of contemporary principles and movements influencing present educational thought and practice; education of exceptional children; education thru reaction; experimental education; statistical methods as applied to educational problems; education and the theory of evolution; recent emphasis on industrial, commercial, and agricultural education; recent development of educational method, and enlarging conceptions and function of education. The course in history of education is a prerequisite to this course. *Three hours a week.* Given in 1917-18 and alternate years.

58. SCHOOL HYGIENE.—This course consists of three main divisions: (1) The hygiene and sanitation of the school building, lighting, heating, ventilation, seating, duties of janitor, hygiene of utensils and books. (2) A study of the school child from the standpoint of health, growth, and defects; medical inspection of schools; contagious and other diseases which affect school children, including the administrative problems involved. (3) The hygiene of instruction, including the best mental and physical conditions for work of school children. *Two hours a week.*

61, 62. ADMINISTRATION AND SUPERVISION OF EDUCATION.—This course is designed for superintendents and principals. Its purpose is to present the fundamental problems of organization and development of school systems; relation of the state to education; state, county, township, and district organizations; powers and duties of superintendents, status of school boards; valuation of curriculums and courses of study; relation of schools to the social needs of the community and individual needs of child life; efficiency of school systems as indicated by the execution of the curriculum, holding power of the schools, age and grade va-

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riations of school children, promotion, retardation, and elimination; school finances and reports; school expenditures and apportionments of school funds, selection and tenure of teachers. *Three hours a week.*

71. THE PEDAGOGY AND PSYCHOLOGY OF HIGH SCHOOL SUBJECTS.—A study of the principles underlying the methods of instruction in the various high school subjects, including their place and function in the secondary schools, and special attention to the mental processes involved in their study. *Three hours a week.*

74. METHODS IN TEACHING AGRICULTURE.—The present status of agricultural instruction in secondary schools, the application of the principles of pedagogy to the teaching of agriculture and the organization of agricultural material into a course. Education 51 and 77 are prerequisites to this course. Required of all students who expect to teach agriculture. *Two hours a week.*

75, 76. PRACTICE TEACHING.—Class teaching of junior and high school subjects in the schools of Old Town and Orono. There are special conferences with instructors in charge of these courses. General teachers' meetings once a week are required of all practice teachers. Attendance upon these meetings are as much a part of the work as teaching the regular class. *Five hours a week*, four hours credit. Other courses may be arranged in proportion to the time and character of the work. Practice teaching in agriculture is in connection with the School Course in Agriculture. *Three hours a week*, two hours credit.

77, 78. TECHNIQUE OF TEACHING.—This is a course including the principles of class management and general methods of teaching. The class room is viewed as a work shop. The technique of learning and mental work as found in school room activities will be studied, including methods of drill and habituation, questioning, presentation of material, lesson plans and aims. The course will include methods of teaching children how to study. It is devised for secondary teachers. *Three hours a week.*

81. VOCATIONAL EDUCATION.—The history and status of vocational education in the United States and Europe; pertinent lessons to be learned from foreign systems; attitude of organized labor; attitude of employers of labor; relation to manual training; legislation; experiment of private philanthropic institutions, industrial corporations, and public schools; articulation with present school system; placements, employ-

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ment; supervision; vocational analysis; cumulative school records; vocational guidance, surveys, and vocational bureaus. *Three hours a week.*

84. MENTAL AND PHYSICAL TRAITS OF HIGH SCHOOL PUPILS.—The course is designed to give the high school teacher a knowledge of the mental and physical characteristics and motives of the high school youth, including the intellectual and physical changes of this age, social and group life, sexual differences, variation in ability, criminal tendencies, moral and religious ideals, and difference in physical and mental age and its bearing on education. Various high school activities will be valued from the status of the adolescent boy and girl: athletic organizations, intellectual interests, genetic significance of play and group life. Stress will be laid on mental and physical hygiene of adolescent development and the characteristic differences between boys and girls. *Three hours a week.*

86. PEDAGOGY AND PSYCHOLOGY OF COMMON SCHOOL BRANCHES.—This course is similar to Course 71 except that the application is made to common school grades. It is designed for superintendents. *Three hours a week.*

87, 88. SCHOOL ADMINISTRATION.—This course deals with the theory and practice of statistical measurements as applied to educational problems. Practice will be given in collecting, arranging, and tabulating data, and graphing results. Open to graduates and undergraduates who have had sufficient preparation to do the work. *Two hours a week.*

101, 102. SEMINAR IN EDUCATION.—Current methods of measuring the results of education, including standards and tests in writing, reading, spelling, drawing, and English. Each student will be required to work out some phase of the subject by the application of the measurements to the schools of Orono or other towns. *Two hours a week.* Given in 1917-18 and alternate years.

103, 104. SEMINAR IN EDUCATION.—Methods of testing and measuring children, including the practical use of mental tests, physical measurements, hygienic tests and their application in discovering waste in education; physiological age, mental age, pedagogical and chronological age of school children will be compared. Each student is expected to take a definite problem and work it out in connection with the schools of Old Town and Orono. The course is designed for superintendents and others who wish to get an insight into the abilities of school children. *Two hours credit.* Given in 1916-17 and alternate years.

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Summer Term

PROFESSOR RICHARDSON; MR. FULLER

51s. HISTORY OF MODERN EDUCATION.—This course will trace the changes in educational theory from the fifteenth century to the present time, and study the men who have been most influential in expressing the theories. Attention will be given to the growth of educational theory and practice in America with reference to sources and causes for the additions and changes that have taken place within the past century.

52s. PRINCIPLES OF SECONDARY EDUCATION.—This course will deal with the recent changes in the point of view with regard to the place and function of secondary education. Especial attention will be given to the junior high school—its history, organization, problems of administration, and arguments for and against it. Other topics that may be discussed are: supervised study, school program and length of day, the Gary plan, social aspects of secondary schools, preparation for college and vocational courses. Readings and reports of recent experiments will be required.

58s. SCHOOL HYGIENE.—This course consists of three main divisions: (1) The sanitation and hygiene of the school house, lighting, heating, ventilation, seating, duties of janitor, hygiene of utensils and books. (2) A study of the school child from the standpoint of health, growth and defects; medical inspection of schools; contagious and other diseases that affect school children, including the administrative problems involved. (3) The hygiene of instruction, including the best conditions for mental and physical work of school children.

64s. SUPERVISION OF INSTRUCTION.—This course is designed for superintendents and teachers of elementary schools. It will cover a study of elementary school curricula with special reference to the new State course of study; methods of teaching various school subjects; standards of measures of progress; grading and promotion of pupils; teacher training and improvement; motivating and socializing the elementary school work.

77s. TECHNIQUE OF TEACHING.—This is a course including the principles of class management and general methods of teaching. The class room is viewed as a work shop. The technique of learning and mental work as found in school room activities will be studied, including methods of drill and habituation, questioning, presentation of material, lesson

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plans and aims. The course will include methods of teaching children to study and work. It is designed for secondary teachers.

83s. MENTAL AND PHYSICAL TRAITS OF HIGH SCHOOL PUPILS.—The course is designed to give the high school teacher a knowledge of the mental and physical characteristics and motives of the high school youth, including the mental and physical changes, social and group life, sexual differences, variation in ability, criminal tendencies, moral and religious ideals and difference in physical and mental age and its bearing on education. Various high school activities will be valued from the status of the adolescent boy and girl, athletic organizations, intellectual interests, genetic significance of play and group life. Stress will be laid on physical and mental hygiene of adolescent development and the characteristic difference between boys and girls.

ENGLISH

PROFESSOR STEVENS; PROFESSOR G. A. THOMPSON; ASSISTANT PROFESSOR REED; MR. DIBBLEE

5, 6. ENGLISH COMPOSITION AND RHETORIC.—The object of this course is to give training in writing correct and clear English, with attention also to oral expression. The theoretical work consists of the study of the fundamental principles of good usage in English writing, and of the expository form of composition, with some attention to the narrative, descriptive, and argumentative forms, and practice in making outlines and briefs. In illustration of the theory many selections from literature are studied. Weekly themes and monthly essays, with conferences. This course is prescribed for freshmen. *Two hours a week.*

9, 10. EXPOSITORY COMPOSITION.—A detailed and fairly complete study of the theory of exposition, with attention to prose style. Monthly essays and conferences. *Two hours a week.* Prerequisites, Courses 5-6.

15. TECHNICAL ENGLISH.—This course aims to develop a taste for the best types of literature in Technical and Agricultural students. Extracts from the best authors are critically studied and the student is trained in the preparation of reports, manuscripts, and technical articles. This is the prescribed course for seniors and juniors in the College of Agriculture and for seniors in the College of Technology.

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18. LITERARY TYPES.—Great books, typical of the several forms of literature, will be read. An endeavor will be made to cultivate an appreciation of the best, both in prose and poetry, and to acquire critical knowledge of what constitutes a great drama, a great epic, a great lyric, a great novel, etc. Open only to juniors and seniors in the College of Agriculture. *Two hours a week.*

29, 30. HISTORY OF ENGLISH LITERATURE.—An outline course, including extensive reading in the English classics. Lectures, assigned reading, and reports. This course is introductory to all other courses in English literature, and should be taken in the sophomore year.

Those who can elect only one course in English will probably find this course best suited to their needs. *Three hours a week.*

31. ENGLISH PROSE IN THE EIGHTEENTH CENTURY.—Among the writings studied are selections from Addison, Swift, Johnson, Goldsmith, and Burke. *Two hours a week.*

32. ENGLISH PROSE IN THE NINETEENTH CENTURY.—Among the writings studied are selections from Macaulay, Carlyle, Ruskin, Newman, Matthew Arnold, and Stevenson. *Two hours a week.*

33, 34. SHAKESPEARE AND THE ENGLISH DRAMA.—A lecture course giving a brief historical survey of the origin and development of the English drama to the time of Shakespeare, with assigned reading in the old dramatists. Introductory lectures on the life and art of Shakespeare, with a study of an early and a late comedy, and an early and a late tragedy. *Three hours a week.*

35. SIXTEENTH CENTURY LITERATURE.—Non-dramatic poetry and prose, including selected writings from the works of Wyatt, Surrey, Gascoigne, Lyly, Sidney, Spenser, Shakespeare, Ben Johnson, and others. Attention is given to the development of forms and to literature as a reflection of the times. *Two hours a week.* Given in 1917-18 and alternate years.

36. SEVENTEENTH CENTURY LITERATURE.—This course follows Course 35 and deals with writings from the works of Bacon; Cavalier and Puritan poets; Herrick, Milton, and Bunyan. *Two hours a week.* Given in 1917-18 and alternate years.

38. VICTORIAN POETS.—Tennyson, Browning, Rossetti, and Arnold. A study of selected poems, with additional assigned reading in the poets.

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Special attention is given to the art of Tennyson and Browning. *Two hours a week.*

41. EIGHTEENTH CENTURY POETRY.—A study and comparison of classical and early romantic poetry, dealing with selected poems from the writings of Dryden, Pope, Thomson, Gray, Collins, Goldsmith, Cowper, Blake, Burns, and others. *Two hours a week.* Given in 1916-17 and alternate years.

42. EARLY NINETEENTH CENTURY POETRY.—A continuation of Course 41. Study of selected poems from the writings of Wordsworth, Coleridge, Scott, Byron, Shelley, and Keats. *Two hours a week.* Given in 1916-17 and alternate years.

43, 44. AMERICAN LITERATURE.—A lecture course giving an historical outline, with assigned reading. *Two hours a week.* Prerequisites, Courses 29 and 30.

45. COMPOSITION AND LITERATURE.—(a) Practice in forms of writing especially suited to the needs of women, as the preparation of a club paper, etc. (b) A study of the best literature for childhood. Required of seniors in Home Economics and elective for other senior women. *Three hours a week.*

46. THE SHORT-STORY.—Practical principles of the structure and a critical examination of the short-story as a type of literature. *Two hours a week.*

51. OLD ENGLISH (ANGLO-SAXON).—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of old English to modern English and modern German. Lectures on the literature of the period 700-1000. This course is advised for those intending to teach English, and for all who wish a thoro knowledge of the language and literature. *Three hours a week.* Given in 1917-18 and alternate years.

52. BEOWULF.—This, the oldest English epic, is read with attention to text, meter, literary, and archeological interests. Prerequisite, Course 51. *Three hours a week.*

53. MIDDLE ENGLISH LITERATURE.—Elements of the grammar of Middle English; reading of the texts in Cook's Literary Middle English

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Reader. Langland's *Piers Plowman* is read with attention to text, meter, and literary interests. *Three hours a week.* Prerequisite, Course 51. Given in 1916-17 and alternate years.

54. CHAUCER.—All of the *Canterbury Tales* and some of the Minor Poems are read with attention to language, meter, historical, and literary interests. *Three hours a week.* Given in 1916-17 and alternate years.

55, 56. THE NOVEL.—A study of the development and technique of the English novel. At least eight of the greatest English and American novels will be read. *Two hours a week.*

59, 60. THE VICTORIAN PERIOD (1830-1900).—A study of the literary, social, and scientific movements in England and America; the rise of periodical literature; tractarianism; pre-Raphaelitism, with special attention to Carlyle, Emerson, Newman, Matthew Arnold, Ruskin, Tennyson, Clough, Robert Browning, D. G. Rossetti, Dickens, Thackeray, George Eliot, Jane Austen, and the Brontës. *Two hours a week.*

63. TEACHERS' COURSE IN ENGLISH.—This course is conducted in cooperation with the Department of Education. It is open only to major students in English, and of these only, as a rule, to seniors and graduate students. The work is mainly practical, with some theory. See Education 75 and 76. The aims, methods, and problems of teaching English composition and literature in high schools and in college. *Two hours a week.*

101, 102. HISTORY AND THEORY OF LITERARY CRITICISM.—*Three hours a week.*

103, 104. TYPES OF LITERATURE.—A comparative study of various literary forms. *Three hours a week.* Prerequisites, Courses 101, 102.

105, 106. MILTON AND HIS AGE.—This course is devoted to problems of form, sources, and literary influences and relations. *Two hours a week.*

107, 108. SEMINAR.—The subject varies from year to year, and is determined by the needs of students in attendance.

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Summer Term

PROFESSOR GRAY

5s. ENGLISH COMPOSITION AND RHETORIC.—Considerable attention is given in this course, by way of review, to matters of good and bad usage, the sentence, and the paragraph. The advanced work embraces the study of rhetoric especially relative to expository writing. Short and long themes, with conferences.

6s. ENGLISH COMPOSITION AND RHETORIC.—This course comprises mainly the theory and practice of argumentative writing. Simple briefs, short and long written arguments, with conferences.

33s. SHAKESPEARE AND THE ENGLISH DRAMA.—Lectures and discussions on Shakespeare's art. Four plays are studied in detail, and several more are required to be read. The origin and development of the English drama is outlined by lectures and illustrated by stereopticon. The Oxford Shakespeare, complete in one volume, is recommended.

37s. VICTORIAN POETS.—Special attention is given to the art of Tennyson. This course alternates with 38s.

38s. VICTORIAN POETS.—Robert Browning. This course alternates with 37s.

51s. OLD ENGLISH (Anglo-Saxon).—A first course, designed to introduce the student of English to the historical study of the language, and to the beginnings of English prose and poetry. Elements of Old English grammar; reading of easy prose and poetry. Constant reference is made to the relation of Old English to Modern English and Modern German. Lectures on the literature of the period 700-1000. This course is essential for teachers of English, and for all who wish a thoro knowledge of the language and literature. This course may count three hours credit toward the master's degree. Open to graduate students and advanced undergraduates.

52s. BEOWULF.—This, the oldest English, epic, is read with attention to text, meter, literary, and archeological interests. Prerequisite, Course 51s. This course may count three hours credit toward the master's degree.

Either Course 51s or 52s will be given, according to demand.

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63s. **TEACHERS' COURSE.**—The aims, methods, and problems of teaching English composition and literature in the high school will be discussed and illustrated. Stress will be placed, this session, upon the preparation of the teacher, drill in the criticism of essays and the consideration of labor saving devices connected therewith, interest as a factor in the study of literature, development of ideas as a factor in composition, and the discussion of the important recently published articles on the teaching of English. The plan of the course is sufficiently flexible for the presentation of special topics or problems by the teachers in attendance, and so far as practicable, their problems will receive attention. This course may count three hours credit toward the master's degree.

As. **HIGH SCHOOL SUBJECTS.**—A study of English grammar, and books required for entrance to college. The books will be selected so as to give variety in type and form. No college credit is given for this course.

FRENCH

PROFESSOR SEGALL; ASSISTANT PROFESSOR KUENY

1, 2. **ELEMENTARY FRENCH.**—Grammar, pronunciation, composition, conversation, translation. *Five hours a week.*

3. **INTERMEDIATE FRENCH.**—Grammar, pronunciation, composition, conversation, translation. Open to students who have taken Courses 1 and 2, or an equivalent. *Three hours a week.*

4. **INTERMEDIATE FRENCH.**—A continuation of Course 3. *Two hours a week.*

5. **ADVANCED FRENCH.**—Rapid reading of Nineteenth Century authors: Hugo, Michelet, Anatole, France, Mérimée, Balzac, Gautier, Musset, About, Daudet, Zola, Maupassant, Theuriet, Coppée. Open to students who have taken Courses 3 and 4, or an equivalent. *Three hours a week.*

6. **ADVANCED FRENCH.**—A continuation of Course 5. Scribe, Feuillet, Labiche, Sandeau, Coppée, Banville, Meilhac et Halévy, Rostand, Balzac. *Two hours a week.*

7, 8. **ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.**—Open to students who have taken Courses 1 and 2, or an equivalent. *Two hours a week.*

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9, 10. ADVANCED FRENCH CONVERSATION AND COMPOSITION.—Open to students who have taken Courses 7 and 8, or an equivalent. *Two hours a week.*

51, 52. HISTORY OF FRENCH LITERATURE.—A systematic study of the evolution of French literary thought and art forms. Extensive reading of the great masters. The Middle Ages, the Sixteenth, Seventeenth, Eighteenth, and Nineteenth Century. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Three hours a week.*

53. THE NOVEL IN THE NINETEENTH CENTURY.—The Romantic Period: Madame de Staël, Chateaubriand, Victor Hugo, Dumas père, De Vigny, Stendhal, George Sand, Balzac, Mérimée, Gautier. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Two hours a week.*

54. THE FRENCH NOVEL IN THE NINETEENTH CENTURY.—The Realistic Period: Feuillet, Flaubert, Edmond et Jules de Goncourt, Daudet, Zola, Maupassant, Anatole France, Loti, Bourget. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Two hours a week.*

55. THE FRENCH DRAMA IN THE NINETEENTH CENTURY.—The Romantic Period: Dumas père, Victor Hugo, Alfred de Vigny, Alfred de Musset, Scribe. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Two hours a week.*

56. THE FRENCH DRAMA IN THE NINETEENTH CENTURY.—The Realistic Period: Augier, Dumas fils, Labiche, Meilhac et Halévy, Sardou, Pailleron, Henry Becque, Georges de Porto Riche, Paul Hervieu, Maurice Donnay, Jules Lemaitre, François de Curel, Eugène Brieux, Henri Lavedan, Coppée, Rostand. Lectures, recitations, themes. Open to students who have taken Courses 5 and 6. *Two hours a week.*

57, 58. HOW TO TEACH FRENCH.—A teachers' course. Lectures, recitations, practical exercises. Open to students who have taken Courses 9, 10, 51, and 52, or an equivalent. *One hour a week.* Given in 1918-19 and alternate years.

59, 60. HOW TO WRITE FRENCH.—An advanced course in French composition. Open to students who have taken Courses 9, 10, 51, and 52, or an equivalent. *Two hours a week.* Given in 1917-18 and alternate years.

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101, 102. **THE MIDDLE AGES.**—The historic development of the French language and literature from the origins to the Renaissance. The national epic; the epic of antiquity; romances of love and courtesy. Lyric poetry. Renard the Fox. Fableaux. The Romance of the Rose. The chroniclers: Villehardouin, Joinville, Froissart, Commines. Latest medieval poets, Charles d'Orléans, Villon. The theatre. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Three hours a week.* Given in 1918-19 and alternate years.

103, 104. **THE SIXTEENTH CENTURY.**—Renaissance and Reformation. Clément Marot, Rabelais, Calvin. The Pleiade and Ronsard. The theatre. The Protestant poets: Du Bartas, d'Aubigné, Montaigne. Memoirs, historians, and political writers. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1919-20 and alternate years.

105, 106. **THE SEVENTEENTH CENTURY.**—The Hotel de Rambouillet and the Précieux school. Balzac. Descartes. The Jansenists, Port-Royal, Pascal. Madame de Sévigné, Madame de Lafayette, La Rochefoucauld. The Burlesque: Scarron; La Fontaine, Boileau. The Churchmen: Bossuet, Bourdaloue, Massillon, Fénelou. La Bruyère. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1918-19 and alternate years.

107, 108. **THE SEVENTEENTH CENTURY.**—The theatre in close relationship to the literary, social, and political environment. The Précieux and Classic movements. The historic development of the tragedy and comedy before Corneille. Corneille, Racine, Molière. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1919-20 and alternate years.

109, 110. **THE EIGHTEENTH CENTURY.**—Memoirs and history; poetry; the theatre; the novel. Beyle, Fontenelle. Montesquieu, Vauvenargues, Voltaire, Diderot and the Encyclopedia, philosophers, economists, critics. Buffon, Rousseau, Bernardin de Saint-Pierre, Beaumarchais, André Chénier. The Revolution. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1917-18 and alternate years.

111, 112. **THE POETRY OF THE NINETEENTH CENTURY.**—The historic development of the poetry of the century; a close and detailed literary study of representative poems. Béranger, Lamartine, Victor Hugo, Alfred

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de Vigny, Alfred de Musset, Gautier, Baudelaire, Leconte de Lisle, Sully-Prudhomme, Hérédia, Coppée, Richépin, Verlaine, Verhaeren. Lectures, recitations, themes. Open to students who have taken Courses 51 and 52. *Two hours a week.* Given in 1920-21 and alternate years.

Summer Term

ASSISTANT PROFESSOR KUENY

5s. **ADVANCED FRENCH.**—This course is an equivalent of Course 5.

6s. **ADVANCED FRENCH.**—This course is an equivalent of Course 6.

7s. **ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.**—This course is an equivalent of Course 7.

8s. **ELEMENTARY FRENCH CONVERSATION AND COMPOSITION.**—This course is an equivalent of Course 8.

57s, 58s. **HOW TO TEACH FRENCH.**—This course is an equivalent of Courses 57 and 58. Given in 1918 and alternate years.

59s, 60s. **HOW TO WRITE FRENCH.**—This course is an equivalent of Courses 59 and 60. Given in 1919.

104s. **MONTAIGNE.**—This course is an equivalent of Course 104. Given in 1918.

108s. **MOLIERE.**—This course is an equivalent of Course 108. Given in 1920.

109s. **VOLTAIRE.**—This course is an equivalent of Course 109. Given in 1921.

111s. **THE POETRY OF VICTOR HUGO.**—This course is an equivalent of Course 111. Given in 1919.

GENERAL LECTURE COURSE

The College of Arts and Sciences has arranged a series of weekly lectures of a popular nature, along lines of work covered by the heads of the departments in that college.

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Courses of lectures have been scheduled as follows:

- 1914-15 English; Education and Philosophy.
 - 1915-16 German and Romance Languages; Biology.
 - 1916-17 History and Economics; Physics and Mathematics.
 - 1917-18 Greek Civilization and Latin; Chemistry.
- These courses will be repeated in the same order.

In the Fall Semester of 1917 a course of fourteen lectures is being given, of which seven deal with "The Intellectual Development of Europe," and seven with the "The Science of Language."

Registration for this course is open to all students in the university and proper credit is given for its completion. Special regulations relating to attendance are imposed.

GERMAN

PROFESSOR G. W. THOMPSON; MISS KELLY

1, 2. FIRST YEAR GERMAN.—A course for beginners, open only to students who are registered in the College of Arts and Sciences. Grammar; composition; reading of numerous texts; conversation. *Five hours a week.*

3, 4. SECOND YEAR GERMAN.—A course for students who have had Course 1, 2 or the equivalent. The grammar study, composition, and text readings are progressively advanced from Course 1, 2. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

5, 6. THIRD YEAR GERMAN.—A course for students who have had Courses 1, 2, 3, 4 or the equivalent. Texts include 18th and 19th century literature; advanced composition; lectures on the history of German literature. *Three hours a week.*

7, 8. FOURTH YEAR GERMAN.—A course for students who have had Courses 1, 2, 3, 4, 5, 6 or the equivalent. Critical reading of standard works principally from the 19th century literature; lectures on the struc-

NOTE. These courses are carefully graded in difficulty and are to be taken in the order named. For the convenience of students not registered in the College of Arts and Sciences who wish to begin the study of German the following courses are offered.

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ture of the drama; advanced composition with original themes. *Three hours a week.*

Course 1, 2. A separate division for those who wish to pursue beginners' German five hours a week, or Courses 9, 10 and 11, 12 in which the work of Course 1, 2 may be completed in two years.

9, 10. ELEMENTARY GERMAN.—Study of grammar, composition, and easy texts which contain a practical vocabulary. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

11, 12. CONTINUATION OF COURSE 9, 10.—More advanced study of grammar, composition, and texts. Open to students who have completed Course 9, 10 or the equivalent. *Three hours a week* in the fall semester; *two hours a week* in the spring semester.

NOTE. Course 11, 12 is not an equivalent for Course 3, 4. Courses 9, 10 and 11, 12 are not open to students registered in the College of Arts and Sciences.

13, 14. ELEMENTARY GERMAN CONVERSATION.—*Three hours a week.*

15, 16. SCIENTIFIC GERMAN.—Separate divisions for Biology and Chemistry students. Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.*

17, 18. ADVANCED GERMAN CONVERSATION AND COMPOSITION.—*Two hours a week.*

NOTE. Courses 13, 14 and 17, 18 are conducted entirely in German.

19, 20. GERMAN POETRY.—*Two hours a week.*

51, 52. HISTORY OF GERMAN CIVILIZATION.—*Two hours a week.*

53, 54. FAUST.—History and development of the Faust idea; incisive study of Goethe's Faust; Goethe's life; influence of Faust. *Two hours a week.*

55, 56. STUDIES IN NINETEENTH CENTURY LITERATURE.—Lectures on the important literary movements in Germany; critical study of Romanticism, Young Germany, and Modern Realism; study of current literature. *Two hours a week.*

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57, 58. STUDIES IN EIGHTEENTH CENTURY LITERATURE.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Herder, Goethe, Schiller. *Two hours a week.*

59, 60. ADVANCED COMPOSITION.—Critical study of the art of paragraphing; discussion of German literary models; development of style. *One hour a week.*

61, 62. MEDIEVAL LITERATURE.—Analysis and reading of the great German epics; study of the Minnesong; the causes and influences which affected the rise and fall of medieval literature. *Two hours a week.*

63, 64. HOW TO TEACH GERMAN.—A course in practical German pedagogy with discussion of theories, methods, and linguistic principles, and also definite classroom teaching for members of the class under the supervision of the instructor. *Two hours a week.*

101, 102. GOTHIC.—Introduction to the subject of philology; phonetics; study and reading of Gothic. Open to students whose major is German. *Two hours a week.*

103, 104. OLD HIGH GERMAN.—Wright's Old High German Primer. The condition for electing this course is the same as for Course 101, 102. *Two hours a week.*

105, 106. MIDDLE HIGH GERMAN.—Translation of Middle High German texts. The condition for electing this course is the same as for Courses 101, 102 and 103, 104. *Two hours a week.*

107, 108. ADVANCED LITERATURE.—Research work; original investigation. *Two hours a week.*

NOTE. Course 5, 6 may be taken by graduates who elected Course 3, 4 in their senior year. Collateral reading is a part of all German courses, in which the use of simple texts is designed to increase the vocabulary and cultivate fluency of translation. The abundance of texts now available offers so wide a choice and variation that it is deemed inexpedient to name a list of books which will be read.

Summer Term

PROFESSOR G. W. THOMPSON

1s. ELEMENTARY COURSE.—For those who wish to acquire or review the essentials of German grammar and the foundation of a German vocabulary.

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2s. SECOND YEAR GERMAN.—This course is designed for students who have completed a year's work in German, or for such teachers as may wish to review their work in this department.

3s. CONVERSATIONAL GERMAN.—For those who have taken at least one year of German and wish to get practice in speaking and hearing German. German stories will be reproduced orally and in writing. There will also be German dictation and memorizing of German songs.

7s. MIDDLE HIGH GERMAN.—Given in 1917.

8s. LITERATURE FROM BEGINNING TO REFORMATION.—Given in 1917.

9s. FAUST.—Given in 1917.

10s. GOTHIC.—Given in 1918.

11s. CLASSICAL PERIOD.—Given in 1918.

12s. STUDY OF HAUPTMANN AND SUDERMANN.—Given in 1918.

GREEK CIVILIZATION

PROFESSOR HUDDILSTON

The Department of Greek Civilization is arranged with the idea of presenting the several phases of Hellenic civilization. Such courses are offered as will prove serviceable to the student of average interests who, not having studied Greek in the fitting school, may desire to include in his college curriculum some work bearing on the permanent literary and art values contributed by the ancient Greeks to the civilization of both ancient and modern times.

I

Language

Courses in Beginning Greek and other courses intended for language students will be provided whenever there is sufficient demand.

II

Civilization, Literature, Life, Religion

1, 2. CLASSICAL CIVILIZATION.—This course has nothing in common with the "ancient history" of the preparatory schools. It is rather the

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achievements of the Greeks and Romans in laying the foundations of so much that is the basis of our modern day life and thought to which attention is directed. Some examination is made of Egyptian and Eastern civilization as the historic background on which developed Classical life and action. An important part of the course lies in the emphasis that is given to the Greek thought and Roman rule in the midst of which Christianity sprang up.

Students who take Greek 53 and 54 after this course will get the projection of Classical civilization, especially literature and philosophy, as it culminated in the Renaissance of Italy, France, and England. While especially the needs of freshmen are kept to the front in this course, it is open to all students.

Instruction is entirely by lectures and each student is required to keep a note-book, and also have as parallel reading Breasted's Ancient History. *Three hours a week.*

3. GREEK PRIVATE LIFE.—Text-book; lectures, illustrated with lantern slides and photographs; assigned reading. *Two hours a week.*

4. GREEK RELIGION.—A study of the chief divinities in ancient Greek religion, and their relation to art and literature; lectures and assigned reading; investigation of special topics by members of the class. *Two hours a week.*

51. GREEK LITERATURE.—The history of poetry,—epic, lyric, and dramatic. Types and standards of verse composition established by the ancient Greeks, and some consideration of the Greek influence upon later poetry, particularly the epic. Lectures and readings from English translations. Each student will be expected to make a special study of some one author, and in the treatment of Aeschylus, Sophocles, and Euripides, at least one play of each will be read in class, members of the class taking the several parts. This course, as well as the next on prose literature, is intended to be foundational for students majoring in classics or in modern languages. *Three hours a week.*

52. GREEK LITERATURE.—The history of prose literature in ancient Greece. History, oratory, and philosophy will be traced in succession. Students will be expected to do parallel reading, especially in Thucydides, Demosthenes, and Plato. This course may be taken only in connection with Greek 51, and like the latter is intended to place the student

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in touch with the forces of lasting value in Greek letters. *Three hours a week.*

53, 54. CLASSICAL CIVILIZATION.—A seminar course thruout the year, open only to those who have taken Greek 1, 2 and intended to develop the classical heritage of the Middle Ages and to follow Greece in the revival of learning. Lectures, discussion by members of the class, and written and oral reports. *Two hours a week.* Given on arrangement with instructor.

III

Art

9. ART.—Greek and Roman art in their broad relations to the life of classical times; the influence of art as a dominant force in Greece and the effects of Greek culture upon Rome; the passing of Greek art to Latin soil; the notable national monuments of Rome. The existing remains in the European museums as well as the monuments still *in situ* in Italy, Sicily, Greece, and Asia Minor will be gone over with the photographs.

Each student will be expected to acquire some ability in estimating the styles of the various epochs. Lectures. *Three hours a week.*

10. RENAISSANCE.—This period is studied particularly with the aid of Italian paintings of the fifteenth and sixteenth centuries. Lectures; study of pictures; special subjects for individual investigation. *Three hours a week.*

11, 12. GENERAL ART HISTORY.—From the Greek age down to the time of the French Revolution. Main emphasis will be laid on the architecture and sculpture of the ancients and the painting of the Renaissance and later times. This course is intended for a rapid survey of the subject and is presented with the idea of accommodating such students as can not afford the time required by Courses 9 and 10. Instruction will be given by lectures, with a text-book for occasional quiz. *Two hours a week.*

HISTORY

PROFESSOR COLVIN

1. MEDIEVAL HISTORY.—A general course covering the period from 395 to 1500 A. D. The disintegration of the Roman Empire; ecclesias-

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tical institutions; feudalism; struggle between the papacy and the empire; rise of modern nations. Required of major students in history. Not open to freshmen. *Three hours a week.*

* 2. MODERN HISTORY.—Continuation of Course 1 to the present time. A rapid survey of the Reformation; the absolute monarchy in France; the French Revolution; the Napoleonic era; Europe in the nineteenth century. Not open to freshmen. *Three hours a week.*

3. HISTORY OF ENGLAND.—From early times to the beginning of the Stuart period. Especial attention is given to social and industrial conditions. Not open to freshmen. *Two hours a week.*

4. HISTORY OF ENGLAND.—Continuation of Course 3. From the beginning of the Stuart period to the present. Not open to freshmen. *Two hours a week.*

5. HISTORY OF THE UNITED STATES.—A general course from 1848 to the present time. Not open to freshmen. *Two hours a week.*

6. RECENT HISTORY.—This course deals mainly with the 20th century. A special study is made of some of the most important events in the year in which the course is given. Not open to freshmen. *Two hours a week.*

7, 8. UNITED STATES HISTORY AND GOVERNMENT.—This course is open to freshmen only, and credit will not be given except for a full year's work. *Three hours a week.*

9. HISTORY OF THE UNITED STATES.—The period from 1783 to 1848. This course will begin with a brief study of Colonial history from 1750. Not open to freshmen. *Two hours a week.*

10. HISTORY OF THE UNITED STATES.—A continuation of Course 6, from 1848 to the present time. Not open to freshmen. *Three hours a week.*

51. THE RENAISSANCE.—This course takes up the Renaissance as an intellectual and social movement in Italy and its expansion into France, England, and Germany. *Three hours a week.*

52. THE REFORMATION.—This course is primarily a study of the Protestant revolt, but an introductory study will be made of Waldo, St. Francis of Assisi, and religious conditions during the Renaissance. *Three hours a week.*

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53. MODERN CONTINENTAL EUROPE.—The period from the Peace of Utrecht to 1789. *Three hours a week.*

54. MODERN CONTINENTAL EUROPE.—Period of the French Revolution and Napoleon I. *Three hours a week.*

55. MODERN CONTINENTAL EUROPE.—The period since 1815. *Three hours a week.*

56, 57. INDUSTRIAL AND SOCIAL HISTORY OF ENGLAND.—The medieval manor town, guild, and foreign trade; Black Death and Peasants' Rebellion; breaking up of the medieval system; expansion of England; the industrial revolution; government control in the nineteenth century; and the growth of voluntary association. This course is continuous for the year and during the latter half is carried over into Colonial and United States social and industrial history.

58, 59. HISTORICAL CONSTRUCTION AND CRITICISM.—*One hour a week.*

Summer Term

PROFESSOR COLVIN

1s. UNITED STATES HISTORY.—This course will begin with 1877, and will presuppose a general knowledge of United States history.

2s. EUROPEAN HISTORY.—This course will begin with the Congress of Vienna and will be a study of the larger movements of the last century especially the growth of the central powers.

3s. GRADUATE COURSE.—This course will be primarily for graduates and will be determined by the previous work of the student desiring to take it.

LATIN

PROFESSOR CHASE

1. LIVY.—Selections from Livy, History of Rome; composition, with review of Latin syntax. *Four hours a week.*

2. CICERO AND HORACE.—Cicero, De Senectute; Horace, Odes and Epodes; Latin composition. *Four hours a week.*

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3. TACITUS.—Reading and discussion of the *Agricola* and *Germania*. *Three hours a week.*

4. TERENCE AND PLAUTUS.—The *Phormio* of Terence; the *Captivi* and *Trinummus* of Plautus; study of early Latin and the development of Roman comedy. *Three hours a week.*

8. TEACHERS' COURSE.—Discussions of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Virgil. *Two hours a week.* Given in 1917-18 and alternate years.

51. LATIN COMPOSITION.—Practice in writing Latin; study of Latin syntax. *One hour a week.*

52. LATIN COMPOSITION.—Practice in writing Latin; study of Latin rhetoric. *One hour a week.*

53. THE YOUNGER PLINY.—Reading of selected letters of Pliny; the Roman Empire. *Three hours a week.*

54. HORACE AND JUVENAL.—Reading of selections from the great satirists; study of Roman satire and social life. *Three hours a week.* Given in 1918-19 and alternate years.

55. TACITUS.—Reading of the *Annales* and study of the reign of Tiberius. *Three hours a week.* Given in 1917-18 and alternate years.

56. THE ROMAN ELEGIAC POETS.—Selections from Catullus, Tibullus, Propertius, and Ovid; study of elegiac poetry. *Three hours a week.* Given in 1917-18 and alternate years.

57, 58. ROMAN PHILOSOPHY.—Reading from Cicero's philosophical writings and from Lucretius; discussion of the leading schools of ancient philosophy. *Three hours a week.* Given in 1918-19 and alternate years.

59, 60. ROMAN RHETORIC AND ORATORY.—Quintilian (selections from the *Institutio Oratoria*); Tacitus (*Dialogus de Oratoribus*); Cicero (selections from the *Brutus*, *De Oratore*, and *Orator*). Open to students who have taken Courses 1, 4. *Three hours a week.* Given in 1917-18 and alternate years.

61. ROMAN PRIVATE LIFE.—Text-book work, supplemented by collateral reading and lectures upon some of the more important and interesting customs and institutions of Roman every-day life. Open to stu-

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dents who have taken Courses 1, 4. *One hour a week.* Given in 1917-18 and alternate years.

101, 102. ROMAN LITERATURE.—General introduction to the subject; illustrative class-room readings. Open to students who have taken Courses 1, 4. *Three hours a week.* Given in 1918-19 and alternate years.

103, 104. THE LATIN LANGUAGE.—A discussion of the fundamental principles of linguistic growth and change and of the relationship of Latin to other languages; Latin phonetics; the development of inflectional forms in Latin. Lectures and recitations. *One hour a week.* Given in 1918-19 and alternate years.

105. ROMAN NUMISMATICS.—Practice in the use of coins as original sources for the study of history, mythology, archeology, etc. *One hour a week.* Given in 1918-19 and alternate years.

107. SANSKRIT.—An elementary course in the classical language of India, with especial reference to the light it throws upon the history and grammar of the languages of Europe. *Two hours a week.* Given when asked for by a sufficient number of students.

108. SANSKRIT.—A continuation of Course 107, with more attention to the classical literature of India. *Two hours a week.*

Summer Term

PROFESSOR CHASE

2s. COLLEGE COURSE.—A course for students who desire college credits looking to the B. A. degree. Some standard Latin author will be read and discussed. The choice of the subject will rest partly with the class. We call the especial attention of secondary school teachers who have not had the advantage of complete college training in Latin to these courses, as we believe they afford an unusual opportunity to them to increase their equipment.

8s. TEACHERS' COURSE.—Discussion of topics connected with the teaching of Latin in secondary schools. Study of selected passages of Cæsar, Cicero, and Virgil.

3s. GRADUATE COURSES.—It is possible for a graduate student majoring in Latin to fulfil the requirements for the M. A. degree in four

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summers. The department offers a series of advanced courses, of the value of three semester hours' credit each, extending over a period of four years. These will give twelve semester hours' credit, and, together with a thesis on some suitable Latin subject, will meet all the major requirements for the Master's degree. The courses offered, subject to modifications upon due notice, are as follows: Critical Study of Latin Literature of the Ciceronian and Augustan Periods, Roman Philosophy, Roman Rhetoric and Oratory. In addition to the major work in Latin, a graduate student will be required to take work amounting approximately to twelve semester hours in minor subjects. This work may be carried along with the Latin work and completed at the same time. It may be most conveniently divided between two subjects which bear some relation to the major work. The subjects best adapted for minors are English, History, French, Spanish, Education, and German.

4s. ETYMOLOGY.—A study of the sources of the English vocabulary, of the relationship of European languages, and the principles of growth and change in language. This course is intended especially to furnish the general linguistic training required of teachers of Latin, English, and modern languages.

MATHEMATICS

PROFESSOR HART; ASSISTANT PROFESSOR TRIPP; MR. STAUFFER; MR. JORDAN

Students electing mathematics as a major subject should expect to take Courses 1, 2, 3, 5, 6, 7, 8, 51, 52, 53, 54, 56, 61, and either Courses Astronomy 10, 15, 16, and 57 or Mechanics 51 and 52. They are also advised to take several courses in Physics.

1. TRIGONOMETRY.—The trigonometric functions; radian measure; functions of two or more angles; logarithms; solution of right and oblique triangles; trigonometric equations; inverse functions. *Five hours a week.* First ten weeks.

2. SOLID GEOMETRY.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. *Three hours a week.* Open to all freshmen who did not offer it for admission.

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3. COLLEGE ALGEBRA.—A brief review of radicals, the theory of exponents, quadratic equations, and the binomial theorem; determinants; theory of equations. *Five hours a week.* Last eight weeks.

4. SPHERICAL TRIGONOMETRY.—The elements of this subject with problems and applications to spherical astronomy. *Two hours a week.*

5. ADVANCED ALGEBRA.—Determinants and the solution of higher equations. Open to students who have taken Courses 1, 2, and 3. *Three hours a week.*

6. ANALYTIC GEOMETRY.—The point, line, circle, and conic sections; higher plane curves; elements of solid analytic geometry. Open to students who have had Courses 1 and 3 and the equivalent of Course 2. *Five hours a week.*

7. CALCULUS.—Differentiation of the elementary forms of algebraic and transcendental functions; successive differentiation; differentials; maxima and minima. Open to students who have taken Courses 1, 2, 3, and 6. *Five hours a week.*

8. CALCULUS.—A continuation of Course 7. Integration of the elementary forms; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.*

11. TRIGONOMETRY FOR AGRICULTURAL STUDENTS.—A course essentially equivalent to Course 1. *Three hours a week.*

12. APPLICATIONS OF TRIGONOMETRY.—A course given for students in Agriculture and Forestry, and open to others who have taken Course 1 or 11. Further practice in the solution of problems with applications to plane surveying. *Two hours a week.*

13. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course given for students in Chemistry and for those in the College of Arts and Sciences who desire only a brief course in this subject. *Three hours a week.*

51. ADVANCED ANALYTIC GEOMETRY.—A course for students who have completed Courses 5, 6, 7, and 8. *Three hours a week.* Given in 1916-17 and alternate years.

52. SOLID ANALYTIC GEOMETRY.—A course based upon C. Smith's Solid Geometry. *Three hours a week.* Given in 1916-17 and alternate years.

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53. ADVANCED CALCULUS.—This course is varied from time to time by using different texts. Open to students who have taken Courses 6, 7, and 8. *Three hours a week.* Given in 1917-18 and alternate years.

54. ADVANCED INTEGRAL CALCULUS.—A continuation of Course 53. *Three hours a week.* Given in 1917-18 and alternate years.

56. DIFFERENTIAL EQUATIONS.—Open to students who have taken Courses 7, 8. *Two hours a week.*

61. HISTORY OF MATHEMATICS.—Lectures and recitations. *Two hours a week.* Given in 1916-17 and alternate years.

101. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE.—An elementary course in the treatment of analytic functions. The course includes a consideration of infinite series, both single and double, infinite products, conformal representation, and a brief application of the theory to Fourier's series, the gamma, beta, and Bessel functions, and spherical harmonies. *Three hours a week.* Given in 1917-18.

102. ELLIPTIC FUNCTIONS.—The Weistrass and Jacobi functions. A brief treatment of transformation theory, and numerous examples. *Three hours a week.* Given in 1917-18.

103. MODERN ANALYTIC GEOMETRY.—Homogeneous coördinates, ideal elements, principle of duality, and an analytic treatment of the straight line and the conics. *Three hours a week.* Not given in 1917-18.

104. MODERN ANALYTIC GEOMETRY.—A continuation of Course 103. *Three hours a week.* Not given in 1917-18.

105. THERMODYNAMICS.—The subject is considered more from a mathematical than from a physical standpoint. The subject is developed from fundamental principles, and is extended to systems of a more general character than those usually considered. *Three hours a week.* Not given in 1917-18.

106. THERMODYNAMICS.—A continuation of Course 105. *Three hours a week.* Not given in 1917-18.

107, 108. THEORY OF INVARIANTS.—An introduction to the general theory of invariants. Symbolic methods are used for both algebraic and differential invariants, with applications, particularly to geometry. *Three hours a week.* Not given in 1917-18.

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109. CELESTIAL MECHANICS.—An elementary course in the planetary theory. *Three hours a week.* Not given in 1917-18.

110. HYDRODYNAMICS.—The subject is treated in such a way as not to require the use of spherical harmonics. The course includes a brief treatment of some of the problems of motion in a fluid, including wave motion and rectilinear vortex motion. *Three hours a week.* Not given in 1917-18.

Summer Term

PROFESSOR HART; ASSOCIATE PROFESSOR WILLARD; ASSISTANT PROFESSOR REED

Courses A and B are planned to meet the needs of high school teachers who wish to review the subjects, or to study methods of teaching. All the teachers in this department of the Summer Term had experience in high school work before entering upon college teaching. Courses 1, 3, 6, 7, 8, 10 should appeal to teachers of high school mathematics who wish to extend their field of mathematical knowledge or to become candidates for a degree. Courses 53 and 101 may be counted toward the bachelor's or, under suitable restrictions, toward the master's degree.

A. TEACHERS' COURSE IN ALGEBRA.—A course intended for teachers in preparatory schools and dealing chiefly with the second year's work. Special attention will be given to the methods of presenting the subject and those topics will be emphasized that are most important in preparation for college work.

B. TEACHERS' COURSE IN GEOMETRY.—A review of the more important theorems, with practice in the demonstration of original propositions and in the solution of numerical exercises. Discussion of text-books and of methods of presenting the subject.

2s. SOLID GEOMETRY.—This course is offered especially for the benefit of students who intend to enter college, but who have not been able to complete the requirements in solid geometry. Wentworth and Smith's Solid Geometry will probably be used as the text-book, but Phillips and Fisher's, Wells's and other books will be used for reference.

1s. PLANE TRIGONOMETRY.—The elements of plane trigonometry, including the solution of right and oblique plane triangles, and of prob-

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lems in surveying, together with the use of surveying instruments. No text-book will be required for this course, but those having logarithmic tables should bring them, and also any modern text-book on trigonometry which may be useful for reference.

3s. COLLEGE ALGEBRA.—The theory of quadratic equations, the binomial theorem and so much of the regular freshman course in algebra as time will permit. The text-book is Rietz and Crathorne's College Algebra.

6s. ANALYTIC GEOMETRY.—A brief course covering the elements of this subject.

7s. DIFFERENTIAL AND INTEGRAL CALCULUS.—A course intended for teachers in preparatory schools, who wish to gain knowledge of the elements of this subject.

8s. INTEGRAL CALCULUS.—The equivalent of Course 8. Open only to those who have previously studied the subject.

10s. DESCRIPTIVE ASTRONOMY.—Lectures accompanied by work in the observatory. The only mathematics required is an elementary knowledge of geometry and plane trigonometry. The department is well equipped with instruments and apparatus for the teaching of both descriptive and practical astronomy.

13s. DIFFERENTIAL AND INTEGRAL CALCULUS.—Equivalent to Course 13. Given especially for students in chemistry and physics, but open to those who have previously taken either Course 7 or Course 13 or an equivalent.

53s. ADVANCED CALCULUS.—Equivalent to a part of Course 53.

101s. THEORY OF FUNCTIONS.—Equivalent to a part of Course 101.

By suitable selection of topics, a candidate should be able to complete the work for the master's degree in four or five summer terms, the exact time depending upon his mathematical ability and previous mathematical preparation.

MUSIC

DIRECTOR SPRAGUE

3, 4. MUSIC APPRECIATION.—A study of the masterpieces of music from the standpoint of the listener. This course is analytical rather

than historical. While the vital forces and personalities in the development of the art are noted and discussed, the music itself is taken as the basis of study, a knowledge of the evolution of form in music, of the molds in which the composers' ideas are cast, being the most tangible and immediate approach to an understanding and appreciation of their works. This evolution is traced from the folk-song to the symphony, and masterpieces of both classic and modern schools are analyzed. Lectures, illustrations, prescribed readings, and reports. The department is equipped with an Angelus for illustration and laboratory investigation. Ability to read music is required. *Two hours a week.*

5, 6. INTRODUCTORY THEORY AND HARMONY.—This course deals with the grammar of music, the preliminary work being a survey of the elements of music structure. Harmony is the foundation of the art of composition, and its study is basic to a genuine musical understanding. It treats of the conditions under which tones sound together and progress in combination. The work in this subject consists of the study of intervals, scales, and chords, their structure, individualities, and associations; the harmonization of melodies; analysis. Knowledge of notation required. *Two hours a week.*

7, 8. ADVANCED HARMONY.—Supplementary to Course 5, 6 and designed to apply to the more advanced problems of tone combination the training already obtained. Harmonic analysis is taken up more fully and systematically. Individual expression is encouraged, the plan of the course including melody-writing and composition in the simpler forms. *Two hours a week.*

9, 10. COUNTERPOINT.—This subject follows logically that of harmony and develops freedom of expression and facility in the handling of material necessary to all forms of composition. Counterpoint is the art of combining melodies. In its application the principles of harmony are still the guiding element, but the voices or strands of the musical structure are developed with more individual character and independence. Melody, rhythm, and harmonic accompaniment are studied in detail. Open to students who have completed Course 5, 6. *Two hours a week.*

51. INTERPRETATION AND CONDUCTING.—The aim of this course is to assist in meeting the demand for leadership in the rapidly growing school and community music movement and thus to familiarize students possessing the technical training and natural ability for musical leadership with the problems of organizing bodies of singers and players; of time-beating;

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of program-building; and of interpretation as applied to the rehearsing and performance of choral and orchestral music. When talent warrants it, opportunity will be offered for practice in actual conducting. Membership in the university chorus, orchestra, or band a prerequisite. Attendance at ensemble concerts is urged, student tickets supplied to the department rendering such expense very small. Open to juniors and seniors. *One hour a week.*

PHILOSOPHY

PROFESSOR CRAIG

3. ANTHROPOLOGY.—The early history of man. Origins of the arts and sciences, of language, of social life, customs, and institutions. Comparison of races and of civilizations. *Three hours a week.*

4. ETHICS.—History of moral codes and customs. Brief history of philosophical ethics. Detailed treatment of the several virtues. Moral education. Applications to practical problems. Open to all students. *Three hours a week.*

51, 52. PSYCHOLOGY.—Anatomy and physiology of the nervous system and sense-organs. Psychology of sensation, instinct, habit, emotion, attention, interest, learning, memory, imagination, reasoning, will. This is the foundation course in psychology. Required of students in Home Economics and in the professional curriculum for teachers. Thruout the year. *Three hours a week.*

57, 58. EXPERIMENTAL PSYCHOLOGY.—Laboratory courses, open to a limited number of students. Prerequisite, Philosophy 51. †*Four hours a week.*

63. SOCIAL AND ECONOMIC PSYCHOLOGY.—Instincts, emotions, motives, values. Mental mechanisms; suggestion, hypnotism, conflict, insanity. Social psychology; convention and custom, the crowd, social control. Applications in daily life, hygiene, education, art, advertising, managing men. A brief treatment of tests for individual differences and efficiency. Required of seniors in Mechanical Engineering. Open to all upper-classmen. *Three hours a week.*

84. HISTORY OF PHILOSOPHY.—A history of thought, in which the movements in science, art, literature, and politics are considered in their

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fundamental aspects, leading up to the great thought-movements of the present day. Marvin's History of European Philosophy and collateral reading. *Three hours a week.*

PHYSICS

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN; MR. SCOTT

NOTE.—For students who are specializing in this department, the time indicated for the various laboratory courses may be extended. Two and one-half hours of laboratory work give a credit of one hour.

1. GENERAL PHYSICS.—Recitations and lectures on the dynamics of solids, liquids, and gases; sound and heat; experiments before the class; problems. Open to students who have taken Mathematics 1. *Five hours a week.*

2. GENERAL PHYSICS.—A continuation of Course 1. Electricity and light. *Three hours a week.*

3. QUALITATIVE LABORATORY WORK.—A course in which students who are preparing to become teachers of physics are given the opportunity of performing the various class-room experiments which accompany the lecture courses. *‡Five hours a week.*

4. LABORATORY PHYSICS.—The subjects usually included in an under-graduate course. Especial attention is given to the reduction of observations and the tabulations of results. Open to students who have taken either Course 1 or Course 5. *‡Five hours a week.*

5, 6. GENERAL PHYSICS.—A course covering the ground of Courses 1 and 2, with more attention to the experimental and historical aspects, and less to the mathematical. *Three hours a week.*

8. ELEMENTARY PHYSICS.—This course is to be taken only by students in Home Economics, and will consist of four recitations and one laboratory period per week. *Five hours a week.*

9. LABORATORY PHYSICS.—A course similar to Course 4, open to students in the College of Arts and Sciences. *‡Five hours a week.*

10. METEOROLOGY.—A course covering the essential principles of the subject of meteorology, including a study of meteorological instruments and weather predictions. *Three hours a week.*

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11. METEOROLOGY.—A continuation of Course 6, dealing with special topics, and a discussion of the results obtained at the meteorological observatory. *One hour a week* recitation; *‡two and one-half hours a week* laboratory.

50. OPTICS.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Three hours a week*. Given in 1917-18 and alternate years.

51. MECHANICS AND HEAT.—Advanced laboratory work in continuation of Course 4. *‡Five hours a week*.

52. OPTICS.—Advanced laboratory work in continuation of Course 4. *‡Seven and one-half hours a week*, or *‡five hours a week*.

53. ELECTRICAL MEASUREMENTS.—Advanced laboratory work in continuation of Course 4. *‡Seven and one-half hours a week*.

55. THEORY OF ELECTRICITY AND MAGNETISM.—Lectures and recitations on the mathematical theory of potential, capacity, and inductance, with application to direct current phenomena. *Two hours a week*.

57. PROBLEMS IN ELECTRICITY.—This course may only be taken in connection with Course 55 or Course 59, as the problems will be selected from the work covered in those courses. *One or two hours a week*.

58. MATHEMATICAL PHYSICS.—The application of mathematical methods to the treatment of problems in physics. *Two hours a week*. Given in 1916-17 and alternate years.

59. THEORY OF ALTERNATING CURRENTS.—Continuation of Course 55, with applications to alternating current phenomena; the addition and subtraction of vector quantities; the analysis of wave forms by use of Fourier's series; the algebra of complex numbers. *Two hours a week*.

60. SOUND.—Lectures and recitations in continuation of Course 1. Open to students who have taken Mathematics 8. *Two hours a week*. Given in 1916-17 and alternate years.

61. HEAT.—An advanced course in heat in continuation of Course 2. *Three hours a week*. Given in 1917-18 and alternate years.

63. THEORY OF MEASUREMENTS.—A text-book course covering the more important topics treated in this subject. *Two hours a week*.

65. PROBLEMS IN THERMODYNAMICS.—This course may be taken in connection with Course 71, by those desiring further training in the

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solution of practical problems in thermodynamics. *One or two hours a week.*

69. RADIO-ACTIVITY.—A combined lecture and laboratory course. Elementary quantitative experiments in radio-activity are performed. *Two hours a week.* Given in 1917-18 and alternate years.

71. THERMODYNAMICS.—An elementary course in thermodynamics. *Two hours a week.*

102. SPECIAL LABORATORY COURSE.—A continuation of Course 101. *‡Seven and one-half hours a week.*

103. RADIATION.—This course comprises lectures and outside reading on the following topics: the electromagnetic theory of light; the development of Maxwell's equations; the application of Maxwell's equation to the reflection, refraction, and polarization of light; the radiation and absorption of a theoretical black body; the theories of emission and absorption; electric waves and light pressure. *Two hours a week.* Given in 1916-17 and alternate years.

Summer Term

PROFESSOR STEVENS; ASSOCIATE PROFESSOR WOODMAN

9s. ELEMENTARY LABORATORY COURSE.—This includes a list of experiments which would be accepted for admission to the University of Maine. The course is especially adapted for teachers who wish to become familiar with the methods of conducting an elementary laboratory course. The complete set of apparatus is assembled in the laboratory, and full directions are given for performing each experiment.

1s. COLLEGE PHYSICS.—A course based upon those parts of Crew's College Physics which treat of mechanics, heat, and sound. This course may be taken for credit only by university students who have covered the ground in Physics 1.

2s. COLLEGE PHYSICS.—A course based upon those parts of Crew's College Physics which treat of electricity and light. This course may be taken for credit only by university students who have covered the ground in Physics 2.

4s. THE GENERAL LABORATORY COURSE.—The subjects usually included in an undergraduate course. Especial attention is given to the reduction of observations and the tabulation of results.

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51s. **ADVANCED LABORATORY COURSES.**—These courses are offered in optics, electrical measurements, and heat. They are of a more advanced nature than those in number 4s which is prerequisite for them.

101s. **ADVANCED LABORATORY COURSE FOR GRADUATE WORK.**—This course will be adapted to the requirements of the students, and will be offered to such students as have completed the courses above listed. The work will be in the nature of a repetition of a published experiment, or it may be an original investigation.

50s. **ADVANCED PHYSICS.**—A course for candidates for the master's degree will be offered in this department each summer. The course will vary for four successive terms so that the student may have an opportunity to cover a wide field. For the coming term the subject will be Light. The work will be based on Edser's Light, and will, when completed, count for two hours on the university books.

PUBLIC SPEAKING

PROFESSOR DAGGETT

1a, 2a. **EXTEMPORANEOUS SPEAKING.**—An elementary course for freshmen in the College of Agriculture. The work follows the general plan of 3 and 4. *One hour a week.*

1, 2. **ARGUMENTATION.**—Those principles of argumentation fundamental to public speaking in general are presented in this course. Analysis of propositions, the explanation of evidence, treatment of refutation, preparation of written arguments, and oral debate will receive careful attention. Required of all sophomores. *One hour a week.*

3, 4. **EXTEMPORANEOUS SPEAKING.**—This course deals with the relation between the speaker and his audience. It aims to develop ease, confidence, and force in each student by giving him practice before the class. In the practice speaking, constant attention is given to diction and to correction of individual faults. The student's grade depends more upon right effort and improvement than upon natural qualifications for speaking. Outside reading and written reports are also required. Courses 1 and 2 are prerequisites. Required of juniors in the College of Technology. Elective to juniors in the other colleges. *One hour a week.*

5. **ADVANCED ARGUMENTATION.**—A more thoro and intensive study of argumentation than Courses 1 and 2. It is intended for students pre-

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paring for intercollegiate debate and for others particularly interested in the subject. Preparation of forensics from briefs, and oral debate. Monthly conference. Elective for sophomores, juniors, and seniors. This course may be substituted for Courses 1 and 2. *Two hours a week.*

6. DEBATE.—A continuation of Pb. 5, devoting relatively more time to practice in oral debate. Open to a limited number of students who have shown ability in argumentation. *Two hours a week.*

7. ORAL ENGLISH.—A fundamental course in voice production, diction and extempore speaking. Practice in reading lyric, narrative, and dramatic forms, with constant application to the requirements of public speech. Prerequisites, English 5, 6 or 7, 8.

8. THE OCCASIONAL PUBLIC SPEECH.—A study of persuasion as applied to the various forms of public address. The plan and method of typical speeches will be studied. The student will also prepare and deliver original speeches illustrating such various forms of public discourse as the eulogy, the commencement oration, the anniversary speech, the speech in behalf of a cause, the informal discussion, and the after-dinner speech. There will be both oral and written exercises, and monthly conferences. *Two hours a week.* Prerequisite, Course 5.

9 or 10. PARLIAMENTARY LAW.—A course dealing with the principles and elementary details of common parliamentary law: what motions may be made; the order in which they may be introduced; which are debatable; what is the effect. The class will be organized as a deliberative assembly, and the student given rapid practice in parliamentary usage. In this course, attention will be given to organization of meetings and to drawing up of constitutions and by-laws. Prerequisites, 1, 2 or 3, 4, or the course may be taken simultaneously with the required public speaking. *One hour a week.*

SPANISH AND ITALIAN

PROFESSOR RAGGIO; MR. MÉNDEZ-RIVAS; MR. VASCONCELOS

Spanish

The minimum requirement for a major in Spanish may be met by completing Courses 1, 2, 3, 4, 5, 6, 51, 52, 53, and 54; the maximum

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number of hours allowed may be taken by adding Courses 55, 56, 57, and 58 to the courses mentioned.

The requirement of thirty semester hours for a master's degree in Spanish may be met in one year by completing courses 101-106 inclusive (12 hours), by writing a satisfactory thesis on some topic connected with Spanish (6 hours), by completing work in not more than two minor subjects (12 hours), and by passing an oral examination covering all the work for the year. For the requirements more in full, see pp. 36-38.

In the following classification, for convenience of description fall and spring semester courses have been combined and defined as groups.

1, 2. SPANISH FOR BEGINNERS.—In this course stress will be laid upon conversation as well as upon grammar, reading, and composition. The instructor will insist upon careful pronunciation and accurate translation. At the end of the course the student should be able to read at sight easy Spanish prose. During the spring semester collateral reading will be assigned. *Five hours a week.*

1a, 2a. SPANISH FOR BEGINNERS.—In this course stress will be laid upon grammar, reading, and composition. The instructor will insist upon careful pronunciation and accurate translation. During the spring semester collateral reading will be assigned. *Three hours a week.*

3, 4. SPOKEN SPANISH.—Stress will be laid in this course upon dictation and conversation. There will be frequent exercises in declamation and oral composition. Students will be expected to read, memorize, and declaim selections in prose and verse. Open to students who pass Spanish 1 and 2 with a grade not lower than B, or who otherwise satisfy the instructor of their fitness to take the course. *Two hours a week.*

3a, 4a. SPOKEN SPANISH.—This course is similar to Spanish 3 and 4, and is intended for students that have completed Spanish 1a and 2a with a grade not lower than B, or that otherwise satisfy the instructor of their fitness to take the course. *Two hours a week.*

5, 6. SPANISH PROSE AND POETRY OF THE NINETEENTH CENTURY.—The aim of this course is to acquire such a reading knowledge of Spanish as to be able to read at sight ordinary prose and poetry, to gain some acquaintance with the literature of the nineteenth century, and to facilitate the study later on of the Spanish classics. Collateral reading will

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be assigned. Open to students who have completed Spanish 1 and 2, or an equivalent. *Three hours a week.*

5a, 6a. TECHNICAL SPANISH.—The object of this course is to acquaint the student with the technical vocabulary of the sciences, pure and applied, as well as with the forms of private and commercial correspondence. Open to students who have completed Spanish 1a and 2a, or an equivalent. *Two hours a week.*

7, 8. SPANISH-AMERICAN CIVILIZATION.—In this course the civilization of the Spanish-speaking Americas will be considered in its intellectual and moral as well as in its material aspect. The customs, social institutions, literature, history, and ideals of Spanish America will be touched upon as well as its geography, its commerce, and its industries. Open to students who have completed Spanish 5 and 6; or to those who have completed Spanish 3a, 4a, 5a, and 6a. *Two hours a week.* To be offered in 1918-19.

51, 52. SPANISH CLASSICS.—In this course the first part of Cervantes's *Don Quijote* will be read entire. Selections from the dramatic works of Lope de Vega and Calderón will be studied. About 1000 pages of collateral reading will be assigned. Open to students who have completed Spanish 3, 4, 5, and 6, or an equivalent. *Three hours a week.*

53, 54. SPANISH CIVILIZATION.—The subject of this course will be approached from the point of view of the Spaniard. Collateral reading will be assigned. Open to students who have completed Spanish 5 and 6. *Two hours a week.*

55, 56. SPANISH COMPOSITION AND RHETORIC.—This course will be conducted in Spanish, and is to be taken contemporaneously with Spanish 57 and 58. A part of the work will consist in the discussion of themes written for that course. Open to students who have completed Spanish 51, 52, 53, and 54, or an equivalent. *Two hours a week.* To be given in 1918-19.

57, 58. HISTORICAL SURVEY OF SPANISH LITERATURE.—In this course Spanish literature will be considered from its inception to the present day. Semi-monthly themes in Spanish will be written on the epochs, and authors discussed. The correction of the themes will form a part of the work in Spanish 55 and 56 which must be taken contemporaneously with this course. Open to students who have completed Spanish 51,

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52, 53, and 54, or an equivalent. *Three hours a week.* To be given in 1918-19.

101, 102. HISTORICAL SURVEY OF THE SPANISH LANGUAGE.—In this course the Spanish language will be considered from its beginnings to the present day. The student will study the laws governing its development from Popular Latin to the language of the present time. The course will consist of lectures, recitations, and collateral reading, and must be taken contemporaneously with Spanish 103 and 104. Open to students who have completed Spanish 55, 56, 57, and 58, or an equivalent. Some acquaintance with Latin is presupposed. *Two hours a week.* To be offered in 1919-20.

103, 104. ORIENTATION IN LANGUAGE AND METHODS OF TEACHING SPANISH.—It is intended in this course to give the student an intelligent grasp of linguistic phenomena old and modern. Speech will be studied both from the physiological and from the psychological point of view. The student will consider such subjects as sound-change, analogy, standard language, the use of phonetic script, etc. With this as a basis various methods of teaching Spanish will then be discussed. The course should be taken contemporaneously with Spanish 101 and 102. Open to students who have completed Spanish 57 and 58, or an equivalent. *Two hours a week.* To be offered in 1919-20.

105, 106. THE SPANISH DRAMA.—In this course the Spanish drama will be studied from its earliest beginnings to the drama of today. Open to students who have completed Spanish 57 and 58, or an equivalent. *Two hours a week.* To be offered in 1919-20.

Italian

1, 2. ITALIAN FOR BEGINNERS.—This is a course in Italian grammar, reading, and composition designed for those who wish to begin as soon as practicable the study of the Italian classics. During the spring semester collateral reading will be assigned. *Three hours a week.*

51. CARDUCCI.—In this course will be included selections from the prose writings as well as from the poetry of Carducci. The structure of Italian verse will be considered. The course is intended to serve as an introduction to the study of the works of Dante taken up in Course 52. Collateral reading will be assigned. Open to students who have taken Italian 1 and 2, or an equivalent. *Three hours a week.*

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52. DANTE.—In this course the *Vita nuova* and the *Inferno* will be read entire. Collateral reading will be assigned. Open to students who have taken Course 51 or an equivalent. *Three hours a week.*

Summer Term

MR. MÉNDEZ-RIVAS

1as. SPANISH FOR BEGINNERS.—Grammar, reading, composition, conversation. During the last three weeks collateral reading will be assigned. At the end of the course the student should be able to read at sight easy Spanish prose.

This course is intended for those who wish to concentrate their work upon Spanish. On completing the course the student will receive six hours university credit, and be eligible for admission without examination to the fall semester courses numbered 3a and 3b.

The class will be held from 7.30 to 8.45 and from 10.45 to 12, daily except Saturdays. On Mondays, Wednesdays, and Fridays, forty-five minutes of the 7.30 period will be devoted to a required course on Mexican or South American affairs, or on South American history and geography. In case none of the courses just mentioned is given, the whole period on the days involved will be devoted to the Spanish language. See 1b.

1bs. This course will be devoted to Mexican or South American affairs, or to South American history and geography. The course will be conducted in English, and will be open to students that have not studied Spanish.

University credit, one hour.—Mondays, Wednesdays, and Fridays from 7.30 to 8.15. The giving of this course will be optional with the instructor.

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College of Law

FACULTY OF INSTRUCTION

WILLIAM EMANUEL WALZ, A. M., LL. B., Litt. D., *Dean and Professor of Law*

CLARENCE WEBSTER PEABODY, A. B., LL. B., *Professor of Law*

BARTLETT BROOKS, A. B., LL. B., *Assistant Professor of Law*

LUCILIUS ALONZO EMERY, A. M., LL. D., Justice and Chief Justice of Supreme Judicial Court of Maine, 1883-1911, *Lecturer on Roman Law and Probate Law*

LOUIS CARVER SOUTHARD, M. S., LL. D., Member of the Massachusetts Bar and of the United States Supreme Court Bar, *Lecturer on Medico-Legal Relations*

EDWARD HARWARD BLAKE, LL. B., LL. D., *Lecturer on Admiralty Law*

ISAAC WATSON DYER, A. B., *Lecturer on Federal Jurisdiction and Procedure, and on Private Corporations*

JOHN ROGERS MASON, A. M., LL. B., *Lecturer on Bankruptcy Law*

WILLIAM BRIDGHAM PEIRCE, B. M. E., *Lecturer on Common Law Pleading and Maine Practice*

HENRY BURT MONTAGUE, LL. M., *Lecturer on Practice and History of Law*

GENERAL INFORMATION

The College of Law was opened to students in 1898. It occupies the Isaac H. Merrill building, now Stewart Hall, purchased by the university in 1911, corner Union and Second Streets, Bangor. In this city are held annually one term of the U. S. District Court, five terms of the Maine Supreme Judicial Court, one term of the Law Court, and daily sessions of the Municipal Court. The law library contains over 5,000 volumes, including the reports of the Federal Courts, and of the Supreme Courts of

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the United States, Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, Illinois, and Ohio; the Court of Appeals of New York; the New York Common Law and Chancery Reports; the American Decisions, American Reports, and American State Reports; the complete National Reporter System; the Lawyers' Reports Annotated; the English Reports, full verbatim reprint; the English Ruling Cases; and the American Digest; all the important law encyclopedias; and a considerable number of text-books.

ADVANCED STANDING

A student entering from any law school having equal admission requirements is admitted to advanced standing and given full credit for work done in the school from which he comes, upon presenting certificates of proficiency from its executive head. All other persons seeking advanced standing as regular students must have the necessary educational qualifications required for admission and must pass examinations in the subjects covered in the earlier part of the curriculum.

Members of the bar of any state may be admitted to the senior class in the fall semester as candidates for the degree of Bachelor of Laws on presentation of their certificates of admission to the bar; graduate students, as well as members of the bar having this degree, may take the graduate courses leading to the degree of Master of Laws.

METHODS OF INSTRUCTION

The college is not committed exclusively to any one method of instruction, but the case system is consistently used in all the subjects of the law for which good case-books have been provided, and the great cases of the law, the land marks of legal development, form the basis of the recitations. The College of Law recognizes the great value of lectures by able men, and the profit to be found in the use of standard text-books; but the greatest stress is placed upon the study of selected cases, and most of the work is carried on in this way. It is believed that thru the case the student can best come at the controlling principles of the law, and that in no other way can he get so vital a comprehension of them. "Thru the case to the principle" may, perhaps, adequately indicate the standpoint of the college in the matter of method.

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Particular stress is placed upon the practice court, which is held once a week as a part of the work of the college, and in which every student is required to appear regularly. The questions of law are in all instances made to arise from the pleadings prepared by the students, and briefs summarizing the points involved and the authorities cited are submitted to the presiding judge.

In the class and recitation work of the college the system of giving legal problems has been followed in the past and will more closely be followed now that the new entrance requirements make the completion of two years' work in college a prerequisite for admission to full and regular standing. This method consists, in brief, in the submission to the class of a legal problem to be solved by each individual student either on the same day or in writing on the next day, and has been fully described in the Report of the Thirtieth Annual Meeting of the American Bar Association held at Portland, Maine, in 1907, pages 1015 to 1017.

CURRICULUM

The curriculum covers three years, in accordance with the requirements for admission to the bar in the State of Maine. College graduates of unusual ability are permitted to arrange their work so as to complete the course in two years, provided they maintain an average of eighty percent, or above. The three years curriculum is, however, recommended in all cases.

Courses designated by an odd number are given in the fall semester; those designated by an even number in the spring semester.

COURSES OF INSTRUCTION

Roman Law, Probate Law, and "What to do in Court and How," are given about once in three years.

All courses given are required of candidates for the degree of Bachelor of laws.

2. ADMIRALTY.—A course of lectures. *One hour a week.* MR. BLAKE.

4. AGENCY.—*Two hours a week.* PROFESSOR PEABODY.

1. BANKRUPTCY.—Lectures. *One hour a week.* MR. MASON.

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3. BRIEF MAKING AND THE USE OF LAW BOOKS.—*One hour a week.* PROFESSOR WALZ.

5. CARRIERS.—*Three hours a week.* PROFESSOR WALZ.

7, 8. COMMON LAW PLEADING.—Lectures. *One hour a week.* MR. PEIRCE.

10. CONFLICT OF LAWS.—*Two hours a week.* PROFESSOR PEABODY.

20. CONSTITUTIONAL LAW.—*Two hours a week.* PROFESSOR PEABODY.

53, 54. CONTRACTS.—*Three hours a week.* ASSISTANT PROFESSOR BROOKS.

11. CRIMINAL LAW.—*One hour a week.* PROFESSOR WALZ.

16. CRIMINAL LAW.—*Two hours a week.* PROFESSOR WALZ.

13. DAMAGES.—*Two hours a week.* PROFESSOR PEABODY.

15. DOMESTIC RELATIONS.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.

17. EQUITY JURISPRUDENCE.—*Three hours a week.* PROFESSOR WALZ.

18. EQUITY JURISPRUDENCE.—*Two hours a week.* PROFESSOR WALZ.

19. EVIDENCE.—*Three hours a week.* ASSISTANT PROFESSOR BROOKS.

22. EVIDENCE.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.

24. EXECUTORS AND ADMINISTRATORS.—Lectures. *One hour a week.* PROFESSOR PEABODY.

26. FEDERAL COURT.—Lectures. *One hour a week.* PROFESSOR WALZ.

23. FEDERAL JURISDICTION AND PROCEDURE.—Lectures. MR. DYER.

21. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.

55. GENERAL REVIEW.—*One hour a week.* PROFESSOR WALZ.

28. HISTORY OF LAW.—Lectures. *One hour a week.* PROFESSOR WALZ.

56. INSURANCE.—*Two hours a week.* PROFESSOR PEABODY.

30. INTERNATIONAL LAW.—Lectures. *One hour a week.* PROFESSOR WALZ.

31. LEGAL ETHICS.—*One hour a week.* PROFESSOR WALZ.

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34. MAINE PRACTICE.—Lectures. *One hour a week.* MR. PEIRCE.
58. MEDICO-LEGAL RELATIONS.—Lectures. *About six lectures.* MR. SOUTHARD.
57. MUNICIPAL CORPORATIONS.—*Two hours a week.* PROFESSOR PEABODY.
35. NEGOTIABLE PAPER.—*One hour a week.* ASSISTANT PROFESSOR BROOKS.
60. NEGOTIABLE PAPER.—*Two hours a week.* ASSISTANT PROFESSOR BROOKS.
36. PARTNERSHIP.—*Two hours a week.* PROFESSOR WALZ.
33. PRACTICE AND HISTORY OF LAW.—Lectures. MR. MONTAGUE.
- 37, 38. PRIVATE CORPORATIONS.—*Two hours a week.* PROFESSOR PEABODY.
39. PRIVATE CORPORATIONS.—Lectures. MR. DYER.
40. PROBATE LAW AND PRACTICE.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.
41. REAL PROPERTY.—*Three hours a week.* PROFESSOR PEABODY.
42. REAL PROPERTY.—*Two hours a week.* PROFESSOR PEABODY.
44. REAL PROPERTY CASES.—*Three hours a week.* PROFESSOR PEABODY.
46. ROMAN LAW.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.
45. SALES.—*Three hours a week.* PROFESSOR PEABODY.
47. SURETYSHIP.—*Three hours a week.* PROFESSOR PEABODY.
48. WHAT TO DO IN COURT.—Lectures. *About ten hours.* EX-CHIEF JUSTICE EMERY.
- 49, 50. TORTS.—*Three hours a week.* PROFESSOR WALZ.
52. WILLS.—*Two hours a week.* PROFESSOR PEABODY.

College of Technology

FACULTY OF INSTRUCTION

HAROLD SHERBURNE BOARDMAN, C. E., *Dean and Professor of Civil Engineering*

CHARLES PARTRIDGE WESTON, C. E., M. A., *Professor of Mechanics and Drawing*

CHARLES BARTO BROWN, C. E., *Professor of Civil Engineering*

WILLIAM EDWARD BARROWS, E. E., *Professor of Electrical Engineering*

WILLIAM JORDAN SWEETSER, S. B., *Professor of Mechanical Engineering*

CHARLES WILSON EASLEY, Ph. D., *Professor of Chemistry*

WILLIAM AMBROSE JARRETT, Pharm. D., *Professor of Pharmacy*

*ALBERT THEODORE CHILDS, E. E., *Associate Professor of Electrical Engineering*

ARCHER LEWIS GROVER, B. S., *Associate Professor of Drawing*

CARL HENRY LEKBERG, B. S., *Associate Professor of Mechanical Engineering*

EMBERT HIRAM SPRAGUE, B. S., *Associate Professor of Civil Engineering*

ALPHEUS CROSBY LYON, B. S., *Assistant Professor of Civil Engineering*

HERBERT HANNIBAL HILLEGAS, B. S., *Assistant Professor of Electrical Engineering*

HARRY GILBERT MITCHELL, A. M., *Assistant Professor of Chemistry*

LESTER FRANK WEEKS, B. S., *Assistant Professor of Chemistry*

BERTRAND FRENCH BRANN, M. S., *Assistant Professor of Chemistry*

HAROLD WALTER LEAVITT, B. S., *Assistant Professor of Civil Engineering*

EVERETT WILLARD DAVEE, *Instructor in Wood and Iron Work*

ERNEST CONANT CHESWELL, *Instructor in Electrical Engineering*

WALTER CHRISTOPHER STONE, B. S., *Instructor in Chemistry*

HARRY ROY PERKINS, *Shop Assistant in Mechanical Engineering*

PAUL DE COSTA BRAY, B. S., *Assistant in Chemistry*

ELWOOD IRVIN CLAPP, B. S., *Assistant in Chemistry*

*Absent on leave, without pay, September 1, 1917, to September 1, 1918

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, in various branches of engineering, and in pharmacy. The number of hours required for graduation in this college is one hundred and fifty. In such technical curricula it is necessary to prescribe a large proportion of the work; but some elective studies may be chosen in the junior and senior years. Under each of the curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The college comprises:

Chemical Engineering Curriculum
Chemistry Curriculum
Civil Engineering Curriculum
Electrical Engineering Curriculum
Mechanical Engineering Curriculum
Pharmacy Curricula

The following requirements for graduation are common to all curricula in this college, with the exception of the short Curricula in Pharmacy.

1. Mathematics, the equivalent of two years, five hours a week, except in Chemistry and Chemical Engineering, where one and two-fifths years are required, and in Pharmacy, where one year is required.

2. Science (chemistry, physics, or biology), the equivalent of one year, five hours a week, of which time an important part must be occupied with laboratory work.

3. Language. English, the equivalent of one year, five hours a week; modern foreign language, the equivalent of one year, five hours a week, but the foreign language may not be the one offered for admission except by permission of the Dean of the College of Technology. By permission of his major instructor, a student may transfer not to exceed three semester hours from English to the foreign language which he is taking.

If a student shall offer for admission in addition to the regular admission requirement in foreign language, at least two units of another modern foreign language, then the above requirement of a five-hour year in one of those languages may be waived by his major instructor.

At graduation in any of these curricula the student receives the degree of Bachelor of Science; except for the short curricula in Pharmacy

COLLEGE OF TECHNOLOGY

where the degrees of Graduate in Pharmacy or Pharmaceutical Chemist are conferred. The diploma indicates which curriculum has been completed.

Maine Technology Experiment Station

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station is under the direct control of the President of the University, the Dean of the College of Technology, and the heads of the Departments of Chemistry and Engineering. The Station carries on practical research in engineering subjects, makes investigations for State boards and municipal authorities, furnishes scientific information to the industries of the State, and distributes accurate scientific knowledge to the people. Bulletins will be issued during the college year.

Chemical Engineering Curriculum

In view of the rapid development of the application of chemistry in manufacturing, this curriculum is offered to furnish training in engineering together with specialization in chemistry. The first two years are almost identical with those under the Chemistry Curriculum, but in the junior and senior years the student takes the fundamental courses in mechanical and electrical engineering, where, in the Chemistry Curriculum, the student takes subjects having a biological aspect. The training is thus essentially chemical, and the graduates are primarily chemists having a knowledge of mechanical and electrical engineering. Such students will be prepared to enter the profession of chemical engineering and to occupy positions in manufacturing establishments such as metallurgical works, bleacheries, dye houses, chemical plants, gas works, sugar refineries, pulp and paper mills, etc.

COLLEGE OF TECHNOLOGY

Option I. Regular Curriculum

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 3, *6.....	2	Drawing 2, *6.....	1
English 5.....	2	English 6.....	2
German 1 or French 3.....	3	German 2 or French 4.....	2
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Physical Training *2.....	½	Physical Training *2.....	1

SOPHOMORE YEAR

Chemistry 11a.....	1	Chemistry 40 †10.....	5
Chemistry 11b, †10.....	5	Physics 2.....	3
Physics 1.....	5	Physics 4 ‡5.....	2
Mathematics 13.....	3	Mathematics 14.....	2
Modern Language.....	3	Mechanical Engineering 58..	2
Public Speaking.....	1	Modern Language.....	2
Military 1.....	1	Public Speaking.....	1
		Woodworking *4.....	1½
		Military 2.....	1

JUNIOR YEAR

Chemistry 51 3 and †4.....	5	Chemistry 52 3 and †4.....	5
Chemistry 61 †8.....	4	Chemistry 62 †8.....	4
Chemistry 71.....	3	Chemistry 72.....	2
Mechanical Engineering 83....	3	Chemistry 74 †6.....	3
Physics 53 †4.....	1½	Chemistry 76.....	2
German 15.....	2	Electrical Engineering 30....	2
		Elective	2

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SENIOR YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 63 †8.....	4	Chemistry 98 †10.....	5
Chemistry 77.....	3	Chemistry 94.....	1
Electrical Engineering 35.....	2	Mechanics 11.....	2
Electrical Engineering 33 †4...	2	English 16.....	2
Mechanical Engineering 75 †3.	1½	Four hours from the	
Elective	3	following:	
		Chemistry 58.....	} 4
		Chemistry 88.....	
		Chemistry 96.....	
		Chemistry 102.....	
		Elective	3

Option II. Paper and Pulp Curriculum

FRESHMAN YEAR *Same as Option I.*

SOPHOMORE YEAR

Chemistry 11a.....	1	Chemistry 40 †10.....	5
Chemistry 11b, †10.....	5	Physics 2.....	3
Physics 1.....	5	Physics 4 ‡5.....	2
Mathematics 13.....	3	Mathematics 14.....	3
Biology 17.....	1	Mechanical Engineering 58..	2
Modern Language.....	3	Modern Language.....	2
Public Speaking.....	1	Public Speaking.....	1
Military 1.....	1	Forestry 2.....	2
		Wood Working *4.....	1½
		Military 2.....	1

JUNIOR YEAR

Chemistry 51 3 and †4.....	5	Chemistry 52 3 and †4.....	5
Chemistry 61 †8.....	4	Chemistry 62 †8.....	4
Chemistry 71.....	3	Chemistry 72.....	2
Chemistry 81.....	2	Chemistry 74 †6.....	3
Mechanical Engineering 83....	3	Chemistry 82 †4.....	2
Forestry 9.....	1	Chemistry 84.....	2
		Electrical Engineering 30....	2

UNIVERSITY OF MAINE

SENIOR YEAR

Chemistry 55 †4.....	2	Chemistry 98 †10.....	5
Chemistry 83.....	4	Chemistry 86 †2.....	1
Chemistry 77.....	3	Chemistry 88 †4.....	2
Chemistry 87 †4.....	2	Chemistry 94.....	1
Mechanical Engineering 75 †3..	1½	Mechanical Engineering 98..	2
Electrical Engineering 33 †4...	2	Economics 6.....	3
Electrical Engineering 35.....	2	English 16.....	2
German 15.....	2		

At graduation the student receives the degree of Bachelor of Science. Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he receives the degree of Master of Science. Three years after graduation, upon presentation of a satisfactory thesis and proofs of professional work, he may receive the degree of Chemical Engineer.

Chemistry Curriculum

This curriculum is designed to give the student not only a thorough technical training, but also a breadth of education which will enable him readily to undertake the great variety of problems which naturally present themselves to a chemist. It differs from the Chemical Engineering curriculum in that the student takes courses having a biological aspect, (bacteriology, biological chemistry, and agricultural analysis) rather than those of an engineering type. The curriculum is a broad one and, when completed, it prepares the student to teach, or for the profession of chemist in experiment station, food laboratories, chemical fertilizer and tanning plants; metallurgical, rubber and electric machinery manufacturing; and the general consulting and analytical work of a professional chemist.

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FRESHMAN YEAR *Same as in Chemical Engineering.*

SOPHOMORE YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 11a.....	1	Chemistry 40 †10.....	5
Chemistry 11b, †10.....	5	Physics 2.....	3
Physics 1.....	5	Physics 4 ‡5.....	2
Mathematics 13.....	3	Mathematics 14.....	2
Modern Language.....	3	Bacteriology 2 ‡6.....	3
Public Speaking.....	1	Modern Language.....	2
Military	1	Public Speaking.....	1
		Military 1.....	1

JUNIOR YEAR

Chemistry 51 3 and †4.....	5	Chemistry 52 3 and †4.....	5
Chemistry 61 †8.....	4	Chemistry 62 †8.....	4
Chemistry 71.....	3	Chemistry 72.....	2
Physics 71.....	2	Chemistry 74 †6.....	3
Physics 51 ‡4.....	1½	Chemistry 76.....	2
German 15.....	2	Elective	3
Elective	2		

SENIOR YEAR

Chemistry 77.....	3	Chemistry 98 †10.....	5
Biochemistry 51.....	3	Chemistry 94.....	1
At least six hours from the following:		At least six hours from the following:	
Chemistry 55.....	} 6	Chemistry 58.....	} 6
Chemistry 101.....		Chemistry 88.....	
Chemistry 63.....		Chemistry 96.....	
Chemistry 105.....		Chemistry 102.....	
Elective	7	Biochemistry 60.....	} 2
		English 16.....	

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Civil Engineering Curriculum

The object of the Curriculum in Civil Engineering is to give the student as thoro a knowledge as possible of the principles underlying the profession. The attempt is made to give the student not only a technical education, but to form the basis for a liberal one as well.

The endeavor is made to impress upon the mind of the student that the granting of his bachelor's degree does not make him an engineer. It simply indicates that he has received the mental technical training which will fit him to follow the profession, and that he must begin at the bottom of the ladder of practice in order to obtain experience and judgment, without which he can never become successful.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice and with the standard engineering literature.

The work of the first year is the same for all engineering students, especial attention being paid to mathematics and English. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased, until the last year when it is nearly all professional. At the beginning of the fourth year an opportunity is offered to specialize slightly along one of the three lines. The first, called Option 1, consists of work in hydraulic engineering and electrical transmission, the second, Option 2, consists of work in railroad engineering, while Option 3 consists of work in railroad engineering and highway engineering.

The following outline constitutes the regular four-year curriculum. Certain general subjects which are given as requirements may, on presentation of reasons satisfactory to the head of the department, be omitted and others substituted.

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FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	2	English 8.....	2
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern Language.....	3	Modern Language.....	2
Public Speaking 3.....	1	Public Speaking 4.....	1
Physical Training *2.....	½	Physical Training *2.....	1

SOPHOMORE YEAR

Civil Engineering 1 and 7....	2½	Civil Engineering 2 and 4...	2½
Drawing 3, *6.....	2	Civil Engineering 6.....	2
Public Speaking.....	2	Drawing 4, *6.....	2
Mathematics 7.....	5	Mathematics 8.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern Language.....	3	Modern Language.....	2
Physics 1.....	5	Physics 2.....	3
		Physics 4, †5.....	2

JUNIOR YEAR

Civil Engineering 25.....	2	Civil Engineering 20.....	2
Civil Engineering 21, 23, *6....	2	Civil Engineering 22.....	1
Civil Engineering 29.....	2	Civil Engineering 26.....	3
Economics 1b.....	2	Civil Engineering 28.....	3
Geology 3.....	2	Civil Engineering 30.....	2
Mechanics 51.....	5	Economics 2b.....	2
Mathematics 57.....	3	Mechanics 52.....	5
Physics 51, †2½.....	1	Mechanical Engineering 74, †2	1
		*Civil Engineering 24.....	2
		*Taken after Commencement	

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SENIOR YEAR

Civil Engineering 37.....	1	Civil Engineering 58.....	3
Civil Engineering 57.....	3	Civil Engineering 60.....	2
Civil Engineering 59, †9.....	4½	Civil Engineering 62, †6.....	3
Civil Engineering 67.....	1	Civil Engineering 52 and Elec-	
Civil Engineering 55 and 51		trical Engineering 42 (Op-	
(Option 1).....	4	tion 1).....	4
Civil Engineering 63 and 53		Civil Engineering 64 and 66	
(Options 2 and 3).....	4	(Option 2).....	4
History 5.....	2	Civil Engineering 72 and 74	
English 15.....	2	(Option 3).....	4
		Civil Engineering 70, †2.....	1
		Economics 6.....	3

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thoro understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

It is the endeavor of the curriculum to acquaint the student with contemporary engineering practice and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, shop, drawing, and

COLLEGE OF TECHNOLOGY

allied engineering courses, together with the cultural subjects enumerated below.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	3	English 8.....	2
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern Language.....	3	Modern Language.....	2
Physical Training *2.....	½	Physical Training *2.....	1

SOPHOMORE YEAR

Electrical Engineering 1.....	2	Electrical Engineering 2.....	2
Public Speaking 3.....	1	Public Speaking 4.....	1
Mathematics 7.....	5	Modern Language.....	2
Physics 1.....	5	Mathematics 8.....	5
Drawing 3, *6.....	2	Physics 2.....	3
Modern Language.....	3	Physics Laboratory 4, ‡5....	2
Military 1, *3.....	1	Mechanical Engineering 56..	3
		Drawing 4, *6.....	2
		Military 2, *3.....	1

JUNIOR YEAR

Electrical Engineering 5.....	3	Electrical Engineering 6.....	3
Electrical Engineering 7.....	2	Electrical Engineering 8, *4..	2
Mechanics 51.....	5	Mechanics 52.....	5
Mechanical Engineering 9, *4..	1	Mechanical Engineering 10, *4	1½
Economics 1b.....	2	Economics 2b	
Civil Engineering 3.....	1	or Mathematics 56.....	2
Civil Engineering 5, *6.....	½	Mechanical Engineering 84..	3
Physics 53, †7½.....	3	Elective	3
Elective	2		

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SENIOR YEAR

Electrical Engineering 51.....	5	Electrical Engineering 52....	5
Electrical Engineering 55.....	3	Electrical Engineering 54....	1
Electrical Engineering 75, *4..	2	Electrical Engineering 56 *4..	2
Civil Engineering 33.....	1	Electrical Engineering 76, †4	2
Civil Engineering 35.....	2	Economics 6.....	3
Mechanical Engineering 85....	3	Elective	2
Mechanical Engineering 77, †3	1	Inspection Trip Thesis.....	
English 15.....	2	Thesis	

Mechanical Engineering Curriculum

The field of the mechanical engineer embraces all work involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and ventilating or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering Curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses while those subjects which are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate more recent practice, by explanations and examples given by the instructor. Numerous problems are assigned for work outside the class-room to make sure the student can apply the principles learned.

Courses in the shops and laboratories illustrate the application of matter learned in the recitation work, and also teach methods of con-

COLLEGE OF TECHNOLOGY

struction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, application of theories to work in design are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thoro instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Sufficient time is devoted to recitation and field work in surveying to give familiarity with instruments and methods. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

REQUIREMENTS FOR GRADUATION

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 3.....	2	Chemistry 2 or 4.....	3
Chemistry 5, †4.....	2	Chemistry 6, †4.....	2
Drawing 1, *6.....	2	Drawing 2, *6.....	2
English 7.....	2	English 8.....	2
Mathematics 1 and 3.....	5	Mathematics 6.....	5
Military 1, *3.....	1	Military 2, *3.....	1
Modern Language.....	3	Modern Language.....	2
Physical Training *2.....	½	Physical Training *2.....	1

SOPHOMORE YEAR

Drawing 3, *6.....	2	Drawing 4, *6.....	2
Mathematics 7.....	5	Public Speaking 4.....	1
Mechanical Engineering 1, *3..	1	Mathematics 8.....	5
Military 1, *3.....	1	Mechanical Engineering 2, *6	2
Modern Language.....	3	Mechanical Engineering 54..	1
Physics 1.....	5	Military 2, *3.....	1
Mechanical Engineering 3, *3..	1	Modern Language.....	2
Public Speaking 1.....	1	Physics 2.....	3
		Physics 4, †5.....	2

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JUNIOR YEAR

Mechanical Engineering 7, *6..	2	Mechanical Engineering 8, *6	2
Mechanical Engineering 61....	2	Mechanical Engineering 66..	3
Mechanical Engineering 59, *3.	1	Mechanical Engineering 80..	3
Mechanical Engineering 79....	3	Mechanical Engineering 70, ‡2	1
Civil Engineering 3.....	1	Mechanical Engineering 68..	2
Civil Engineering 5.....	½	Electrical Engineering 30....	2
Mechanics 51.....	5	Mechanics 52.....	5
Physics 51, ‡5.....	2	History 6.....	2
Economics 1b.....	2		
‡Mechanical Engineering 57....	3		

SENIOR YEAR

Mechanical Engineering 81....	2	Civil Engineering 60.....	2
Mechanical Engineering 71, ‡3.	1½	Mechanical Engineering 72, ‡3	1½
Mechanical Engineering 67, *6.	2	Mechanical Engineering 82..	2
Civil Engineering 33.....	1	Mechanical Engineering 88, *6	2
Civil Engineering 35.....	2	*Mechanical Engineering 94.	1½
Electrical Engineering 31.....	2	*Economics 2b.....	2
Electrical Engineering 33, ‡3..	1½	Electrical Engineering 34, ‡2	1
Mechanical Engineering 91....	1½	Mechanical Engineering 96..	1
English 15.....	2	Mechanical Engineering 98..	2
Philosophy 63.....	3	Inspection Trip.....	
		Thesis	

*Substitution may be offered for this course if approved by the major instructor.

‡Will not be offered in 1917-18.

Pharmacy Curricula

The Department of Pharmacy offers three curricula, one of four years, one of three years, and one of two years.

The four-year curriculum is offered in response to a demand for a combined collegiate and technical training for those who design to practice pharmacy. It aims therefore to combine general culture studies with a training in those sciences fundamental to technical pharmacy, to

COLLEGE OF TECHNOLOGY

the end that the pharmacist may be equipped culturally and technically to fulfill the increased demands and responsibilities of his exacting calling. Hence, this curriculum includes the appropriate sciences and laboratory courses, it also includes cultural courses in modern languages, history, philosophy, and economics. While in the latter three subjects particular courses are not specified, a minimum number and proper sequence of such courses are required.

Those who intend to prepare for pharmaceutical work are urged to consider carefully the superior advantages of this curriculum. The increasing importance of the chemical, biological, and sanitary sciences, and of the pharmacist's relation to them, emphasized by the era of food and drug legislation now upon us, points out at once the path of new duty and of enlarged opportunity to those fitted to enter. To the unfit, the new duty remains, without the enlarged opportunity.

Instruction in pharmaceutical studies is given by lectures, recitations, and tests, supplemented by work in the laboratories of chemistry, biology, and pharmacy. Thirty hours are required for graduation.

The library contains valuable reference literature in chemistry, pharmacy, and allied sciences, and the leading scientific and technical journals.

REQUIREMENTS FOR GRADUATION, FOUR-YEAR CURRICULUM

FRESHMAN YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Chemistry 1 or 2.....	2	Chemistry 2.....	3
Chemistry 3, †4.....	2	Chemistry 6, †4.....	2
English 5.....	2	English 8.....	2
Modern Language.....	3	Modern Language.....	3
Mathematics 1 and 3.....	5	Military 2, *3.....	1
Military 1, *3.....	1	Physical Training *2.....	1
Physical Training *2.....	½	Mathematics 6.....	5
Public Speaking 1.....	1	or	
		Mathematics 2.....	3
		and	
		Physics 10.....	3
		Public Speaking 2.....	1

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SOPHOMORE YEAR

Biology 1.....	4	Biology 2.....	4
Chemistry 11, †10.....	5	Public Speaking 6.....	2
Public Speaking 5.....	2	Military 2, *3.....	1
Military 1, *3.....	1	Modern Language.....	2
Modern Language.....	2	Physics 2.....	3
Physics 1.....	5	Physics 4, ‡5.....	2
		Elective	5

JUNIOR YEAR

Biological Chemistry 51.....	5	Bacteriology 2, †6.....	3
Biology 15.....	3	Chemistry 60, †10.....	5
Pharmacy 13.....	3	Laboratory Biological Chem-	
Pharmacy 7.....	3	istry 52, †4.....	2
Pharmacy 9.....	3	Pharmacy 2.....	4
Pharmacy 11.....	2	Pharmacy 16, †8.....	4
		Pharmacy 4.....	2

SENIOR YEAR

Pharmacy 17, †8.....	4	Pharmacy 14.....	5
Chemistry 61, †4.....	2	Pharmacy 18, †12.....	6
Pharmacy 3.....	3	Pharmacy 20.....	3
Elective	2	Pharmacy 22, †4.....	2
Chemistry 41, †8.....	4	Chemistry 16.....	5
Pharmacy 51.....	2		
Pharmacy 53.....	2		
Pharmacy 55.....	1		

At graduation the student receives the degree of Bachelor of Science.

THREE-YEAR CURRICULUM

This is designed more especially for those who wish to enter the commercial field of pharmaceutical chemistry or food and drug analysis. It also enables the pharmacist to strengthen his professional relations by the practice of urinary, bacteriological, and toxicological analysis

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for the physician. This curriculum includes a foreign language, English, and science, as well as advanced studies in pharmacy and chemistry, not given in the two-year curriculum.

The work of the first two years corresponds to that of the two-year curriculum. Upon the completion of this curriculum the student receives the degree of Pharmaceutical Chemist.

THIRD YEAR

<i>Fall Semester</i>		<i>Spring Semester</i>	
Subject	Hours	Subject	Hours
Bacteriology 1, †6.....	3	Chemistry 68.....	2
German 9.....	3	Biological Chemistry 52, †4..	2
English 7.....	3	English 8.....	3
Physics 5.....	5	German 10.....	2
Biological Chemistry 1.....	5	Chemistry 92.....	2
Elective	2	Pharmacy 22, †8.....	4

Two Year Curriculum

This curriculum is designed for those who for lack of time or for other reasons, are unable to take the other curricula. The more general educational studies of the full curriculum are omitted, but as broad a range of subjects is offered as can be undertaken without sacrifice of thoroughness in the technical work. The curriculum corresponds, in general, to the usual full curriculum of pharmacy colleges. The work required of the student will occupy his whole time during the college year of nine months, and will usually exclude work in drug stores during term time. The brevity of this curriculum does not warrant extending to other than advanced students the privilege of electives. Upon its completion the student receives the degree of Graduate in Pharmacy.

FIRST YEAR

Chemistry 1 or 3.....	2	Botany 14.....	3
Chemistry 9, †16.....	8	Chemistry 2.....	3
Pharmacy 13.....	3	Pharmacy 16, †8.....	4
Pharmacy 9.....	3	Pharmacy 2.....	4
Pharmacy 11.....	2	Pharmacy 4.....	2
		Pharmacy 6.....	3

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SECOND YEAR

<i>Fall Semester</i>			<i>Spring Semester</i>		
Subject		Hours	Subject		Hours
Pharmaceutical Histology	15..	3	Pharmacy 18, †12.....		6
Pharmacy 3.....		3	Pharmacy 14.....		5
Pharmacy 17, †8.....		4	Pharmacy 20.....		3
Chemistry 41, †8.....		4	Chemistry 16.....		5
Pharmacy 51.....		3			
Pharmacy 53.....		2			
Pharmacy 55.....		1			

Departments of Instruction

NOTE. A star (*) before the time designated for a course indicates that three hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 50-100 are for graduates and undergraduates; courses numbered 100 and above are primarily for graduates.

CHEMISTRY

PROFESSOR EASLEY; ASSISTANT PROFESSOR MITCHELL; ASSISTANT PROFESSOR WEEKS; ASSISTANT PROFESSOR BRANN; MR. STONE

1. GENERAL CHEMISTRY. This course deals with the general principles of the science. Lectures and recitations. Open to students who have taken chemistry in preparatory school. *Two hours a week.* To be accompanied by Course 5. Courses 1, 2, 5, and 6; or 3, 4, 5, and 6 constitute the first year's work in chemistry.

2. GENERAL CHEMISTRY.—This course is a continuation of Course 1. It is mainly devoted to a study of the metallic elements, their classification, compounds, and chemical properties. Lectures and recitations. *Three hours a week.* To be accompanied by Course 6.

3. GENERAL CHEMISTRY.—A course similar to 1 for those who have had no previous work in chemistry. *Two hours a week.* To be accompanied by Course 5.

4. GENERAL CHEMISTRY.—A course similar to 2 but in continuation of 1 for those who did not take chemistry in the preparatory school. *Three hours a week.* To be accompanied by Course 6.

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5. LABORATORY CHEMISTRY.—Laboratory work to accompany Course 1 or Course 3. †*Four hours a week.*

6. LABORATORY CHEMISTRY.—A continuation of Course 5 to accompany Course 2, or Course 4. †*Four hours a week.*

11. QUALITATIVE ANALYSIS.—This course includes the general reactions of the metals and acids with their qualitative separation. The subject is studied from the standpoint of the law of mass action and the ionic theory. 11a. *One hour a week.* 11b. *Ten hours a week.*

13. QUALITATIVE ANALYSIS FOR PHARMACISTS.—†*16 hours a week.*

15. ORGANIC CHEMISTRY.—An elementary one semester course in organic chemistry. Required of sophomores majoring in Agriculture. *Two hours class room and †two hours laboratory work a week.*

16. ORGANIC CHEMISTRY.—An elementary course giving in one semester a rapid view of the subject. Students who have sufficient time available are advised to take Courses 52 and 53 instead of this course. No prerequisite other than general chemistry. *Three hours class room and †four hours laboratory work a week.*

40. ELEMENTARY QUANTITATIVE ANALYSIS.—An introductory course illustrating the fundamental principles of gravimetric methods. Open to students who have had Course 11. †*Ten hours a week.*

41. ANALYSIS OF PHARMACEUTICAL PRODUCTS.—The work includes the simpler methods of quantitative analysis, especially those methods of interest to students in Pharmacy. †*Eight hours a week.*

51. ORGANIC CHEMISTRY.—The work is principally with the compounds of the aliphatic series. Lectures, recitations, and laboratory work. Open to those who have taken Course 11. *Three hours class room; †four hours laboratory work a week.*

53. ORGANIC CHEMISTRY.—A continuation of Course 52. The work is chiefly in the aromatic series. *Three hours a week class room; †four hours laboratory work a week.*

54. ORGANIC ANALYSIS.—The methods for the quantitative determination in organic substances of carbon, hydrogen, nitrogen, sulphur, and the halogens. Open to those who have completed Courses 52 and 53. †*Four hours a week.*

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55. CELLULOSE.—A laboratory course in which are studied the chemical reactions and characteristics of the commoner forms of cellulose. †*Four hours a week.*

58. ORGANIC PREPARATIONS.—The work consists in the preparation and study of typical organic compounds. This course must be preceded by Courses 52, 53. †*Six hours a week.*

59. DYEING.—The practical application of dyes to cotton, wool, and silk. †*Fifteen hours a week* for two weeks.

61. QUANTITATIVE ANALYSIS.—A continuation of Course 40. This course includes a study of calibration methods, volumetric analysis, and the application of gravimetric and volumetric methods. Prerequisite, Course 40. †*Eight hours a week.*

62. QUANTITATIVE ANALYSIS.—A further application of analytical methods both gravimetric and volumetric to some of the more difficult problems of separation and determination. †*Eight hours a week.*

63. TECHNICAL ANALYSIS.—This course includes the proximate analysis of coal, the analysis of iron and steel, oils, and fats, or other industrial analysis of general importance. Prerequisite, Course 62. †*Eight hours a week.*

64. ASSAYING.—The fire assay of typical ores for gold and silver. †*Four hours a week.*

66. WATER ANALYSIS.—The analysis of water is studied both from the sanitary and from the industrial standpoint. Open to students who have taken Course 60. †*Four hours a week.*

71, 72. PHYSICAL CHEMISTRY.—This course is devoted to the study of some of the more important principles and methods of physical chemistry in its several branches. Lectures and recitations. Open to students who have completed Chemistry 60, Mathematics 13, and Physics 1, 2, 4. *Three hours a week*, fall semester; *two hours a week*, spring semester.

74. PHYSICO-CHEMICAL METHODS.—Determination of molecular weights; the study of solutions through conductivity and other methods; rate of reaction and chemical equilibrium; potential and electro-motive force; calorimetry; and the use of the more important instruments, such as the refractometer, polariscope, and spectroscope. †*Six hours a week.*

76. METALLURGY.—An introductory study dealing chiefly with iron and steel. *Two hours a week.*

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77. INDUSTRIAL CHEMISTRY.—General processes of technical chemistry, and selected topics, including the principal manufactured products of special interest. Lectures and recitations. As a part of this course an inspection trip is made to manufacturing plants of a chemical nature in New England. The expense of this trip the last few years has varied from \$15 to \$25 a year. Open to students who have completed Courses 11, 52, 53, 60. *Three hours a week.*

81. PAPER.—A lecture course on paper and the various processes of present day paper making. Open to those who have completed Courses 11, 52. *Two hours a week.*

82. PAPER MANUFACTURE.—A laboratory course in which paper machinery will be studied and paper of various kinds will be made. This course should be preceded by Course 81. †*Four hours a week.*

83. PAPER AND PULP ANALYSIS.—A laboratory course in paper and pulp mill chemistry. The work taken up is that ordinarily falling to the chemist of a pulp mill of either the soda, sulphate, or sulphite type. Open to students who have completed Course 60. †*Eight hours a week.*

84. PULP.—A lecture course on the processes of manufacturing paper pulp. The uses of pulp other than in the manufacture of paper will also be discussed. *Two hours a week.*

86. BLEACHING OF PULP.—A laboratory course dealing with the methods of bleaching various kinds of pulp. Open to those who have taken Courses 82, 83. †*Four hours a week.* Last nine weeks.

87. PAPER TESTING.—The testing of paper for bursting strength, tensile strength, stretch, crumpling, etc. Also the methods for estimating the kinds and percentages of the various fibers present in a sample of paper. †*Four hours a week.*

88. PAPER COLORING.—A laboratory course on mordants, dye-stuffs and their applications, testing, retention, matching of shades, etc. Open to those who have completed Course 55. †*Four hours a week.*

93, 94. CHEMICAL LITERATURE.—Reviews and discussions of leading articles appearing in current English, German, and French chemical literature. Open to juniors majoring in the department who have completed the required work in modern languages. *One hour a week*, either semester.

96. MINERALOGY.—Open to those who have completed Course 40. †*Four hours a week.*

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98. **THESIS WORK.**—The thesis will embody the result of the study of a special problem in the laboratory. This problem will partake of the nature of original research and will ordinarily require *not less than ten hours a week*.

101. **ADVANCED ORGANIC CHEMISTRY.**—A series of lectures on special topics in organic chemistry. Open to students who have completed Courses 52, 53. *Three hours a week*.

102. **QUALITATIVE ANALYSIS.**—This course is similar to Course 11, but deals with organic compounds. It must be preceded by Courses 52, 53. *†Four hours a week*, either semester.

105. **ELECTROCHEMISTRY.**—A lecture course on the general principles of the subject and its applications in industrial work. Open to students who have completed Courses 71, 72. *Two hours a week*.

106. **INORGANIC PROBLEMS.**—*Two hours a week*.

Laboratory fees covering general chemicals, gas, etc., are as follows: Courses 66, 86, 96, \$2; Courses 15, 54, 55, 87, \$3; Courses 82, 83, 89, 102, \$4; Courses 5, 6, 16, 40, 41, 52, 74, 98, \$5; Courses 58, 61, 62, 63, 104, \$6; Course 11, \$8; Course 13, \$10.

Broken apparatus and special chemicals are paid for at the chemical supply room by use of a "breakage card" obtained from the Treasurer's office. The portion of this card which has not been used will be redeemed at the end of the semester.

For courses in biological and agricultural chemistry, see description of courses given by the Department of Biological and Agricultural Chemistry.

Summer Term

PROFESSOR EASLEY; ASSISTANT PROFESSOR MITCHELL

The department offers the facilities of its instructional force and laboratories for all who wish to undertake any studies in chemistry. Courses may be taken for credit but the department does not lose sight of the fact that many students of science would like the opportunity of undertaking special work under direction. With this object in view only a few laboratory courses are listed but any ordinary work may be taken by individuals and the department will give all possible aid to such

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work. If there is a sufficient demand, courses other than the listed ones may be given.

It is possible that the department may offer work which would partially fulfill the requirements for the master's degree. Intending students would do well to communicate with the department on this matter beforehand.

1s. THE TEACHING OF CHEMISTRY.—An elementary course intended to aid those who are already teaching chemistry or those who may wish to enter this field. The subject will be studied from the laboratory as well as the classroom standpoint and there will be ample opportunity for informal discussion. This course is proposed as the first step in a plan extending over two or three years. It will deal essentially with the more important phases of general chemistry. At the next summer term the subjects of qualitative and quantitative analysis may be taken up. Finally the course may be rounded out by short studies in organic and physical chemistry.

3s. GENERAL CHEMISTRY.—A course of lectures and demonstrations on elementary chemistry. No previous knowledge of the subject is assumed, so that the beginning student may take the course; on the other hand, the development is such that the course will serve as a review as well as an introduction to new matter for those who desire further work in general chemistry. The course deals chiefly with the non-metals.

4s. GENERAL CHEMISTRY.—A continuation of Course 3s dealing chiefly with the metals.

5s. Laboratory work in the field covered by Course 3s.

6s. Laboratory work in the field covered by Course 4s.

11s. QUALITATIVE ANALYSIS.—A systematic study of reactions and separation of the more common metals and acids. The character of this course may be made to meet the needs of any student as the work is almost entirely individual.

15s. This course is designed for those who wish an elementary knowledge of organic chemistry. Teachers will find that it may broaden their horizon and premedical students may find the course to their advantage. It will be regarded as the equivalent of Ch 15 for agricultural students.

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CIVIL ENGINEERING

PROFESSOR BOARDMAN; PROFESSOR BROWN; ASSOCIATE PROFESSOR SPRAGUE;
ASSISTANT PROFESSOR LYON; ASSISTANT PROFESSOR LEAVITT

1. PLANE SURVEYING. FIELD WORK.—This course consists of practice in the use of the chain, tape, compass, transit, level, and other surveying equipment. Required of all students in the Departments of Civil Engineering and Forestry. **Six hours a week. First nine weeks.*

2. PLOTTING.—This course consists chiefly of map drawing from field notes, by the different methods in common use. Courses 1 and 7 are prerequisite. **Eight hours a week. First twelve weeks.*

3. PLANE SURVEYING.—A course similar to Course 7. Given to students in the Departments of Mechanical and Electrical Engineering. *Two hours a week.*

4. FIELD WORK IN SURVEYING.—A continuation of Course 1. This course consists of original surveys, problem work, adjustment of instruments, note keeping, etc. Course 1 is prerequisite. **Six hours a week. Last six weeks.*

5. FIELD WORK IN SURVEYING.—The use of the chain, compass, transit, and level. Required of all students in the Departments of Mechanical Engineering and Electrical Engineering. Given in connection with Course 3 but not with Course 7. **Six hours a week. First six weeks.*

6. RAILROAD CURVES.—A course of recitations and lectures investigating the geometry of railroad curves, switches, and turnouts. Course 7 or 3 is prerequisite. *Two hours a week.*

7. PLANE SURVEYING.—Recitations and lectures covering the general theory of plane surveying; description of surveying equipment, and adjustment of instruments; use of chain, tape, compass, transit and level; and other surveying operations. Required of all students in the Departments of Civil Engineering and Forestry. *Three hours a week. Last nine weeks.*

20. MASONRY CONSTRUCTION.—A course including the discussion of stone and brick masonry; cement and cement testing; mortar; plain and reinforced concrete; foundations; pneumatic caissons; culverts, bridge piers, and abutments. *Two hours a week.*

21. RAILROAD FIELD WORK.—The survey for a railroad about two miles in length. The preliminary and location surveys are made, includ-

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ing running in the curves, obtaining the topography, establishing the grade, and setting the slope stakes. Courses 4, 6 or Courses 4, 27 are prerequisites. **Six hours a week. First nine weeks.*

22. ADVANCED SURVEYING.—This course consists of lectures, readings, and recitations on the theory and practice of base line measurement, triangulation, precise leveling, topographical surveying, the use of the plane table, and the theory and application of least squares. It is a preparation for Course 24. Course 21 is prerequisite. *One hour a week.*

23. RAILROAD OFFICE WORK.—The office work of mapping the notes taken in Course 21, including the calculation of the earth work. Courses 2, 21 are prerequisites. **Six hours a week. Last nine weeks.*

24. SUMMER FIELD WORK.—This course consists of the practical application in the field and in the office of the principles given in Course 22. The work is given during the two weeks following Commencement. Course 22 is prerequisite.

25. RAILROAD CONSTRUCTION.—Recitations and lectures on the field and office practice of staking out and computing amount of excavation and fill; borrow-pits; haul; methods and materials of railroad construction; subgrade; roadbed; track and track work. Course 6 or 27 is prerequisite. *Two hours a week.*

26. HYDRAULICS.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. *Three hours a week.*

27. SIMPLE CURVES AND EARTHWORK.—A lecture course on the theory and practice of simple railroad curves, and on the field and office practice of staking out and computing earthwork. Given to students outside of the Department of Civil Engineering who desire to take Courses 21 and 23. Courses 1, 4 or Courses 3, 5 are prerequisites. *One hour a week.*

28. STRUCTURES.—The theory of the simple beam; loads and reactions; vertical shear; bending moment; influence lines. The object of this course is to give the student a drill in finding vertical shear and bending moment under different systems of loadings, and to apply the same to the design of simple beams, also to familiarize him with the use of steel hand books, various tables, and the slide rule. Class room, *two hours a week. Drawing room, †two hours a week.*

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29. **SANITARY ENGINEERING.**—The general principles of sewer design and construction, and sewerage disposal; a study of city sanitation. Course 1 or 3 is prerequisite. *Two hours a week.*

30. **HIGHWAY CONSTRUCTION.**—The construction and maintenance of city pavements and country roads under various conditions of traffic, climate, soil, etc. Course 1 or 3 is prerequisite. *Two hours a week.*

31. **ROADS AND TRAILS.**—This course consists of lectures on the practice of building and maintaining trails and ordinary types of roads, and includes the design of simple beams and girders. For Forestry students. *One hour a week.*

33. **FOUNDATIONS.**—A short course in the fundamentals of design for different classes of foundations; bearing power of soils, manufacture of cement, mixing and testing of cement and concrete, cofferdams, pneumatic caissons. Required of students in Mechanical and Electrical Engineering. *One hour a week.*

35. **HYDRAULICS.**—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. *Two hours a week.*

51. **HYDRAULIC FIELD WORK.**—The measurement of the flow of rivers is illustrated by the use of the current meter. The data thus obtained is used to plot the rating curves, etc. The measurements taken are reported to the U. S. G. Survey. The expenses of this course are paid by the students. Required of students taking Option 1. Course 26 is prerequisite. †*Four hours a week.*

52. **HYDRAULIC ENGINEERING.**—A continuation of Course 55. Course 51 is prerequisite. *Two hours a week.*

53. **HYDRAULIC FIELD WORK.**—A short course similar to Course 51. Required of students taking Options 2 and 3. Course 26 is prerequisite. †*Two hours a week.*

55. **HYDRAULIC ENGINEERING.**—Rainfall, evaporation, and stream flow; the development and utilization of water power; the development of the modern turbine; inspection of hydro-electric plants. Lectures and recitations. Required of students electing Option 1. Course 26 is prerequisite. *Two hours a week.*

57. **STRUCTURES.**—A continuation of Course 28. The theory of stresses in framed structures, including the plate girder, bridge trusses,

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and roof trusses; reinforced concrete; the principles of designing. The object of this course is to train the student in the application of the principles of mechanics to the design of structures. *Three hours a week.*

58. STRUCTURES.—A continuation of Course 57. This course includes a study of the higher types of structures. *Three hours a week.*

59. DESIGNING.—This course takes up the design for some of the common types of steel structures, and the preparation of the shop drawings. Course 28 is prerequisite. †*Nine hours a week.*

60. GRAPHIC STATICS.—Class and drawing room work in the graphical determination of shear and bending moment, and the analysis of bridge and roof trusses by graphical methods. Course 57 is prerequisite. *Two hours a week.*

62. DESIGNING.—A continuation of Course 59. Course 57 is prerequisite. †*Six hours a week.*

63. RAILROAD ENGINEERING.—A course discussing the economics of railroad location and operation. The railroad corporation, its rights and limitations; traffic; operating expenses; the locomotive and its work; distance; curves; grades. Application to highway location. Required of students electing Options 2 and 3. Course 25 is prerequisite. *Three hours a week.*

64. RAILROAD ENGINEERING.—A course in railroad design. A map reconnaissance for a railroad about twelve to fifteen miles in length is made, applying the theories of Course 63. The final line is located, profile made, grades established, and drainage areas and culverts calculated. The rails, switch points, frogs, and ties for a turnout are designed. Required of students electing Option 2. Courses 23, 63 are prerequisites. †*Four hours a week.*

66. RAILROAD ENGINEERING.—A course of lectures and recitations studying various railroad problems; structures; grade crossings and elimination; yards and terminals; signals and interlocking; maintenance and betterment work as discussed in engineering periodicals. Required of students electing Option 2. Course 63 is prerequisite. *Two hours a week.*

67. CEMENT LABORATORY.—This course consists of making the regulation commercial tests upon different samples of cement. A laboratory fee sufficient to cover the cost of materials used is charged. Required

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of students in Mechanical Engineering and in Civil Engineering. Course 20 is prerequisite for students in Civil Engineering. *The time varies.*

70. ROAD MATERIALS LABORATORY.—Physical and chemical tests of sand, gravel, stone, brick, wood block, bituminous compounds, and other road materials. Course 30 and Chemistry 1 or 3, 2 or 4, 5, 6 are prerequisites. †*Two hours a week.*

72. HIGHWAY DESIGN.—Drawing room study of highway location and relocation including plans of proposed improvement and construction of about five miles of highway. Detailed estimates and specifications for same. Required of students electing Option 3. Course 63 is prerequisite. †*Four hours a week.*

74. HIGHWAY ENGINEERING.—An advanced course of lectures and recitations in highway economics, administration, and legislation; general highway engineering problems. Required of students electing Option 3. Course 63 is prerequisite. *Two hours a week.*

97 and 98. THESIS WORK. The study of and report upon some original investigation, or design. *Time to be arranged.* See regulations regarding degrees.

ELECTRICAL ENGINEERING

PROFESSOR BARROWS; ASSISTANT PROFESSOR HILLEGAS; MR. CHESWELL

1, 2. ELEMENTARY ELECTRICITY.—Fundamental laws and principles of electricity, series and parallel circuits, electrical instruments, electrical measurements. Recitations and problems. *Two hours a week.*

5, 6. ELEMENTS OF ELECTRICAL ENGINEERING.—Application of laws studied in Courses 1 and 2. The magnetic circuit, the fundamental study of electrical apparatus. Principles of construction, operation, and testing of direct current generators and motors; general engineering problems. Lectures, recitations, and problems. *Three hours a week.*

7, 8. LABORATORY WORK.—Electrical measurements, operation and testing of direct current generators and motors. Application of the work of courses 1, 2, 5, 6. Laboratory fee \$5.00. *Four hours a week.*

30. DIRECT CURRENT MACHINERY.—Electrical principles and applications; the production, distribution, and utilization of power from the

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standpoint of the mechanical and chemical engineer. Recitations and problems. *Two hours a week.*

31. ALTERNATING CURRENTS.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. *Two hours a week.*

33, 34. ELECTRICAL LABORATORY.—These courses are based on Courses 30 and 31. Operation of direct current and alternating current generators and motors; electrical power measurements. Laboratory fee \$5.00 per semester. †*Four hours a week.*

42. ELECTRICAL POWER.—Electrical measurements; the generation, transmission, and utilization of electrical power. Lectures, recitations, and problems. *Two hours a week.*

51. ALTERNATING CURRENTS.—Effect of alternating currents upon various electric circuits; voltage; current and voltage relations in inductive and capacity circuits; the theory, construction, and operation of apparatus and machinery. Lectures, recitations, and problems. *Five hours a week.*

52. ADVANCED ALTERNATING CURRENTS.—A continuation of Course 51. Polyphase apparatus; generation, transmission, distribution and utilization of polyphase power; problems involving previous courses. High voltage long distance transmission; transmission line phenomena; methods and practice of securing most reliable service. Lectures, recitations, and problems. *Five hours a week.*

54. TECHNICAL REVIEWS.—A study of some special phase of electrical engineering and the presentation of it to the class. *One hour a week.*

55. ELECTRICAL POWER PLANTS.—Electrical equipment of power plants; methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. *Three hours a week.*

56. ELECTRICAL POWER PLANT DESIGN.—Design and location of plant, arrangement of apparatus, design and location of substations and transmission lines. *Four hours a week.*

60. WIRELESS TELEGRAPHY.—Fundamentals of wireless telegraphy and telephony. Detectors; sending; receiving; tuning. *Two hours a week.*

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61. ILLUMINATING ENGINEERING.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. *Two hours a week.*

63. TELEPHONE ENGINEERING.—Principles of telephone apparatus and circuits; telephone systems; party lines, trunk lines; central stations. Lectures and recitations. *Three hours a week.*

64. ELECTRIC RAILWAY ENGINEERING.—Preliminary considerations in electric railway engineering; selection of proper equipment; car, bond, and transmission testing. Lectures, recitations, and problems. *Two hours a week.*

75, 76. LABORATORY WORK.—Alternating current measurements; operating, testing, and experimental work on power and lighting apparatus; alternating current instruments; generators, motors, transformers, synchronous converters, polyphase power measurements. Laboratory fee \$5.00 per semester. *Four hours a week.*

78. INSPECTION TRIP.—About a week's trip visiting some of the electrical and industrial plants of New England.

80. THESIS WORK.—The study of and report upon some original report or design. *Time to be arranged.* See regulations regarding degrees.

MECHANICAL ENGINEERING

PROFESSOR SWEETSER; ASSOCIATE PROFESSOR LEKBERG; MR. DAVEE; MR. PERKINS

1. FOUNDRY WORK.—Foundry instruction is given in bench and floor molding, mixing of materials, core making, operation of cupolas, etc. Charge for materials \$4.00. **Three hours a week.*

2. WOODWORKING.—Graded exercises in woodworking designed to make the student familiar with tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of the making of complete patterns and core boxes from drawings. Charge for materials \$4.00. **Six hours a week.*

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3. FORGE WORK.—Forging; welding; tool dressing. A set of lathe tools for use in machine shop is made by each student. Charge for material \$5.00. **Three hours a week.*

4. WOODWORKING.—A shorter course than Course 1, arranged for students in Agriculture and Chemical Engineering. Charge for materials \$4.00. **Four hours a week.*

7, 8. MACHINE WORK.—Lathe work; exercises on planer, shaper, and milling machines; making cut gears, machinists' taps, etc. Course 3 is a prerequisite. Charge for materials \$5.00. **Six hours a week.*

9, 10. MACHINE WORK.—Shorter course than 7, 8, for electrical engineers. Charge for materials \$5.00. **Four hours a week.*

54. ELEMENTS OF MECHANICAL ENGINEERING.—A course of lectures, supplemented by recitations, designed to familiarize the student with the mechanical apparatus of manufacturing and power plants, and with the elementary formulae and constants used in simple engineering calculations. *One hour a week.*

56. KINEMATICS.—A study of motion in machine design; linkages, gears, cams, etc., for Electrical Engineers. *Three hours a week.*

57. KINEMATICS.—A course similar to 56 for mechanical engineers with more attention given to the graphical determination of the velocity and acceleration of moving parts in machines. *Three hours a week.*

58. KINEMATICS.—A shorter course than 56 given to Chemical Engineers. *Two hours a week.*

59. KINEMATICAL DRAWING.—Supplementary to Course 57. The drawings are of cams, gear teeth, and graphical studies of kinematical problems. **Three hours a week.*

61. MATERIALS OF ENGINEERING.—Properties of the metals; timber, rope; protective coatings and preservatives. *Two hours a week.*

66. MACHINE DESIGN.—A study of the designing of machines; proportioning of parts for strength, rigidity, etc. Mechanics 51, 52 are prerequisites. *Three hours a week.*

67. MACHINE DESIGN.—A continuation of Course 66, including the execution of the design of some typical machines. Course 66 is a prerequisite. **Six hours a week.*

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68. VALVE GEARS.—A study of the principal steam engine valve motions; construction and use of valve diagrams; solution of practical problems in the drawing room. *Two hours a week.*

70. MECHANICAL LABORATORY.—Elementary experimental work such as calibration of instruments, steam calorimetry, use of steam and gas engine indicators, mechanical efficiency tests, etc. Laboratory charge \$2.00. †*Two hours a week.*

71. MECHANICAL LABORATORY.—Tests of materials, hydraulic testing, valve settings, steam and gasoline engines. Laboratory charge \$3.00. †*Three hours a week.*

72. MECHANICAL LABORATORY.—Tests of condensers, boilers, air compressors, fans, pumps, etc. Laboratory charge \$3.00. †*Three hours a week.*

74. MECHANICAL LABORATORY.—A course arranged for students in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs, through orifices and nozzles; calibration of venturi meters. Laboratory charge \$2.00. †*Two hours a week.*

75. MECHANICAL LABORATORY.—A course arranged for students in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Laboratory charge \$2.00. †*Three hours a week.*

77. MECHANICAL LABORATORY.—A course arranged for students in Electrical Engineering. Calibration of instruments; testing of strength of materials; testing of steam engines, gas engines, hydraulic testing. Laboratory charge, \$2.00. †*Three hours a week.*

79. HEAT ENGINEERING.—Laws of thermodynamics; laws of gases, saturated and superheated vapors; Carnot's, Rankine's, and actual steam engine cycles; use of steam tables; steam calorimetry; with illustrative practical problems. Mathematics 8 and Physics 1 and 2 are prerequisites. *Three hours a week.*

80. HEAT ENGINEERING.—Simple and compound steam engines; flow of steam; air compressors; flow of air; refrigeration. Course 79 is a prerequisite. *Three hours a week.*

81. HEAT ENGINEERING.—A continuation of courses 79 and 80 dealing with steam turbines and gas engines; considerations affecting the design and efficiency of operation of heat motors. *Two hours a week.*

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82. POWER PLANTS.—Fuels and combustion; types, operation, and arrangement of power plant equipment; design, costs, operating expenses, and economics of steam and gas power plants. Course 81 is a prerequisite. *Two hours a week.*

83. HEAT ENGINEERING.—A short course for chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery and power plant equipment. *Three hours a week.*

84. HEAT ENGINEERING.—Similar to Course 79. Given in the spring term to Electrical Engineers. *Three hours a week.*

85. HEAT ENGINEERING.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas plant power equipment and operation. For students in Electrical Engineering. Course 84 is prerequisite. *Three hours a week.*

88. ENGINE DESIGN.—A study of problems affecting the design of a steam or gas engine with regard to their bearing on general machine design. An engine is partially designed in the drawing room. Courses 67 and 81 are prerequisite. **Six hours a week.*

91. HEATING AND VENTILATION.—Course 80 is a prerequisite. *Two hours a week.* First fourteen weeks.

94. HYDRAULIC MACHINERY.—Hydraulic turbines; water wheels; various features of hydraulic power plant development. *Three hours a week.* First nine weeks.

96. SEMINAR.—Preparation, presentation, and discussion of papers on leading engineering topics. *One hour a week.*

98. FACTORY ORGANIZATION AND MANAGEMENT.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of management; factory design and construction. *Two hours a week.*

INSPECTION TRIP.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. The expense to each student is in the neighborhood of thirty-five dollars. A complete schedule of the trip is pre-arranged and a member of the department staff is in charge of the party. Excuse from this trip may be obtained only upon application to a special committee.

COLLEGE OF TECHNOLOGY

THESIS.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall semester of the senior year. See regulations regarding degrees.

MECHANICS AND DRAWING

PROFESSOR WESTON; ASSOCIATE PROFESSOR GROVER; MR. McCABE

1. DRAWING.—Instruction and practice in technical freehand drawing and lettering, in the care of drawing instruments and their use in elementary problems involving right lines, circles, conic sections, and orthographic projections. **Six hours a week.*

2. DRAWING.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings and tracings. **Six hours a week.*

3. DRAWING.—The elementary principles and problems of descriptive geometry, including intersections and developments. **Six hours a week.*

4. DRAWING.—A continued study of the making of working drawings of simple machines, together with instruction and practice in making titles for the same. **Six hours a week.*

9, 10. DRAWING.—A course designed especially for students in Agriculture and for non-engineers. It combines the fundamental principles of Course 1 and Course 2. **Three hours a week.*

12. MECHANICS.—An elementary course in the fundamental principles of statics, kinematics and kinetics, with applications to practical problems involving frictional resistance, the transmission of power by belts, and the stresses and strains in beams, trusses, shafts, and columns. For students in Chemical Engineering. *Three hours a week.*

51, 52. MECHANICS.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center of gravity and moment of inertia; the study of stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curves; torsional stresses and theories of stress in long columns. *Five hours a week.*

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101. ADVANCED MECHANICS.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, hydro-mechanics, etc. *Three hours a week.*

102. ADVANCED MECHANICS.—A continuation of Course 101. *Two hours a week.*

PHARMACY

PROFESSOR JARRETT; MR. MURRAY

2. ORGANIC PHARMACOGNOSY.—Macroscopic and microscopic study of organic drugs; identification, collection, and selection; active principles. *Four hours a week.*

3. PHARMACOLOGY.—The physical, chemical, physiological, and therapeutical properties of medicines; their doses; poisons and antidotes. *Three hours a week.*

4. INORGANIC PHARMACOGNOSY.—Macroscopic study of inorganic drugs, tests, etc. *Two hours a week.*

6. PHARMACEUTICAL CHEMISTRY.—Chemical formulae; principles; chemical reactions; equations, with special reference to pharmaceutical processes. *Three hours a week.*

9. PHARMACEUTICAL ARITHMETIC.—The arithmetic pertaining to the science and art of pharmacy; special emphasis placed on the metric system in all of its practical details; the accurate use of the various current weights and measures. *Three hours a week.*

11. PHARMACEUTICAL LATIN.—The Latin pertaining to pharmacy; such essentials of inflection and syntax are taught as will serve the practical purpose of enabling the student to read prescriptions with ease and intelligence. *Two hours a week.*

13. THEORETICAL PHARMACY.—The exposition of the principles upon which pharmaceutical operations are based. This includes the study of pharmacopoeias, dispensaries, etc.; weights and measures; specific gravity; pharmaceutical uses of heat; extemporaneous pharmacy; the principles of dispensing, etc. *Three hours a week.*

COLLEGE OF TECHNOLOGY

14. PHARMACOPOEIA.—A complete review of the pharmacopeia with special reference to the chemical and pharmaceutical principles involved in the tests and preparations. *Five hours a week.*

16, 17. LABORATORY PHARMACY (MANUFACTURING).—The preparation of the most important U. S. P. galenicals and such additional U. S. P. and N. F. preparations as the time will permit, selecting the latter from those which require skill and careful manipulation. †*Eight hours a week.*

18. LABORATORY PHARMACY (DISPENSING).—This course teaches the compounding of medicine. The time is so arranged as to give a liberal number of hours for the actual work in the compounding of prescriptions. Incompatibilities, how to overcome them, etc. The work includes the preparation of solutions, mixtures, emulsions, pills, capsules, powders, cachets, tablets, tablet triturates, troches, ointments, plasters, suppositories, etc. †*Twelve hours a week.*

20. PRESCRIPTIONS.—This course includes the abbreviations and symbols used; reading, labeling, checking, and filing. Critical examination of prescriptions from actual files, with reference to principles, and to physiological, pharmaceutical, and chemical incompatibilities; doses; methods and order of compounding, etc. *Three hours a week.*

22. ADVANCED LABORATORY (MANUFACTURING).—Manufacture of toilet preparations, etc. †*Four hours a week.*

51. URINALYSIS AND TOXICOLOGY.—The analysis of urine and the detection of the most common poisons. *Three hours a week.*

53. COMMERCIAL PHARMACY.—Trade or commerce in pharmaceutical products. It includes bookkeeping, business correspondence, commercial and business law, and business practice. *Two hours a week.*

55. PHARMACY READINGS.—Current pharmacy literature: research and reference readings; abstracting; reports and theme writing on various subjects pertaining to pharmacy. *One hour a week.*

Required Courses

MILITARY SCIENCE AND TACTICS

PROFESSOR LANG; MR. STEPHENSON

Military instruction is required by law. The department is in charge of an officer of the regular army, detailed by the President of the United States for this purpose. United States army rifles, model 1898, ammunition, and accoutrements are furnished by the War Department. The course makes especial preparation for the duties of commissioned officers of the military forces of the country. The students are organized into an infantry regiment and band, officered by cadets selected for character, soldierly bearing, and military efficiency. The corps is instructed and disciplined in accordance with rules established by the President of the United States. These rules include the minimum course of instruction that must be covered, and the minimum time that must be devoted to this instruction.

The uniform prescribed is as follows:

For commissioned officers, the olive-drab service uniforms prescribed for infantry officers of the United States Army, except that "R. O. T. C." and "Maine" insignia and buttons are used; for non-commissioned officers and privates, the olive-drab service uniforms of the United States Army, except that "R. O. T. C." and "Maine" insignia and buttons the used. The uniforms are procured through an authorized tailor, and are made in the best manner, of thoroughly good material. Cadets are required to wear the uniform when on military duty.

The corps of cadets constitutes a unit of the Reserve Officers' Training Corps, established by act of Congress, and the course of training prescribed by the Secretary of War for Infantry Units of the Senior Division is followed.

Of the following scheduled Courses 1 to 4 inclusive are required of all male freshmen and sophomores with the exception of students in the

REQUIRED COURSES

one-year Pre-Medical Course, the College of Law, the two-year curriculum in Pharmacy, and the School Course in Agriculture. Students who are physically disqualified are also excused. Courses 5 and 6 are elective for juniors; and 7 and 8 are elective for seniors.

The required courses cover two years' instruction as laid down in War Department orders. For convenience in arranging the schedule, freshmen and sophomores are united in this instruction. It is necessary for each student to complete all four of these courses.

The elective courses are so scheduled that juniors and seniors may have the privilege of advanced theoretical military instruction in addition to the courses required for cadet officers.

1. MILITARY ART—

(a) PRACTICAL. *Weight 10.*

Physical drill (Manual of Physical Training—Koehler); Infantry drill (U. S. Infantry Drill Regulations), to include the School of the Soldier, Squad and Company, close and extended order. Preliminary instruction sighting position and aiming drills, gallery practice, nomenclature and care of rifle and equipment.

(b) THEORETICAL. *Weight 4.*

Theory of target practice, individual and collective (use of landscape targets made up by U. S. Military Disciplinary Barracks, Fort Leavenworth, Kans.); military organization (Tables of Organizations); map reading; service of security; personal hygiene.

Three hours a week (counting 14 units)

2. MILITARY ART—

(a) PRACTICAL. *Weight 10.*

Physical drill (Manual of Physical Training—Koehler); Infantry drill (U. S. Infantry Drill Regulations), to include School of Battalion, special attention devoted to fire direction and control; ceremonies; manuals (Part V, Infantry Drill Regulations); bayonet combat; intrenchments (584-595, Infantry Drill Regulations); first-aid instruction; range and gallery practice.

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(b) THEORETICAL. *Weight 4.*

Lectures, general military policy as shown by military history of United States and military obligations of citizenship; service of information; combat (to be illustrated by small tactical exercises); United States Infantry Drill Regulations, to include School of Company; camp sanitation for small commands.

Three hours a week (counting 14 units)

3. MILITARY ART—

(a) PRACTICAL. *Weight 10.*

The same as course 2 (a). Combat firing, if practicable, but collective firing will be attempted in indoor ranges by devices now in vogue at United States Disciplinary Barracks.

(b) THEORETICAL. *Weight 4.*

United States Infantry Drill Regulations, to include School of Battalion and Combat (350-622); Small-Arms Firing Regulations; lectures as in (b) course 2; map reading; camp sanitation and camping expedients.

Three hours a week (counting 14 units)

4. MILITARY ART—

(a) PRACTICAL. *Weight 10.*

The same as course 2 (a); signaling; semaphore and flag; first-aid. Work with sand table by constructing to scale intrenchments, field works, obstacles, bridges, etc. Comparison of ground forms (constructed to scale) with terrain as represented on map; range practice.

(b) THEORETICAL. *Weight 4.*

Lectures, military history (recent); service of information and security (illustrated by small tactical problems in patrolling, advance guards, rear guards, flank guards, trench and mine warfare, orders, messages, and camping expedients); marches and camps (Field Service Regulations and Infantry Drill Regulations).

Three hours a week (counting 14 units).

REQUIRED COURSES

5. MILITARY ART—

(a) PRACTICAL. *Weight 13.*

Duties consistent with rank as cadet officers or noncommissioned officers in connection with the practical work and exercises laid down for the unit or units. Military sketching.

(b) THEORETICAL. *Weight 11.*

Minor tactics; field orders (studies in minor tactics, United States School of the Line); map maneuvers. *Weight 8.*

Company administration, general principles (papers and returns). *Weight 1.*

Military history. *Weight 2.*

Five hours a week (counting 24 units)

6. MILITARY ART—

(a) PRACTICAL. *Weight 13.*

Same as (a) course 5. Military sketching.

(b) THEORETICAL. *Weight 11.*

Minor tactics (continued); map maneuvers. *Weight 8.*

Elements of international law. *Weight 2.*

Property accountability; method of obtaining supplies and equipment (Army Regulations). *Weight 1.*

Five hours a week (counting 24 units)

7. MILITARY ART—

(a) PRACTICAL. *Weight 13.*

Duties consistent with rank as cadet officers or noncommissioned officers in connection with the practical work and exercises scheduled for the unit or units. Military sketching.

(b) THEORETICAL. *Weight 11.*

Tactical problems, small forces, all arms combined; map maneuvers; court-martial proceedings (Manual for Courts-martial).

International relations of America from discovery to present day; gradual growth of principles of international law embodied in American diplomacy, legislation, and treaties.

Lectures: Psychology of war and kindred subjects.

General principles of strategy only, planned to show the intimate relationship between the statesman and the soldier (not to exceed 5 lectures).

Five hours a week (counting 24 units)

8. MILITARY ART—

(a) PRACTICAL. *Weight 13.*

Same as course 7 (a).

(b) THEORETICAL. *Weight 11.*

Tactical problems (continued); map maneuvers. Rifle in war.

Lectures on military history and policy.

Five hours a week (counting 24 units)

It is presumed that each member of the Reserve Officers' Training Corps during his academic course has taken one course or equivalent credit in either French, or German, or Spanish.

Special courses are arranged, so far as possible, so that specialists will be developed for duties other than those prescribed for reserve officers of the mobile arms.

These courses are arranged so that the standard required will be that for a platoon leader in an Infantry company or of the equivalent unit in the other arms.

Such units can not be considered apart from the larger ones, which are made up of a combination of smaller ones. Hence intelligent teamwork depends on the leaders of smaller tactical units understanding the working of the larger units of their own arm in combination with the other arms.

The student upon graduation should know what is required of a platoon from the point of view of the company commander, and understand clearly the interior economy of a company. He must know what is demanded of the soldier as an individual and also in combination as part of a larger organization. The last knowledge should include some idea of the tactical handling of a battalion, of which his company is a smaller unit.

The schedule of training prescribes graded courses covering a period of four years, and instruction will be taken up as follows;

REQUIRED COURSES

BASIC COURSE

Freshman year, courses 1 and 2 (28 units).

Sophomore year, courses 3 and 4 (28 units).

ADVANCED COURSE

Junior year, courses 5 and 6 (48 units).

Senior year, courses 7 and 8 (48 units).

PHYSICAL CULTURE AND ATHLETICS

PROFESSOR—————

1. PHYSICAL TRAINING.—Class formation and figure marching; setting-up drills; free-arm and calisthenics movement; elementary dumb-bell, wand, and apparatus exercises. *One hour lecture and *two hours practice a week.*

2. PHYSICAL TRAINING.—Intermediate and advanced class exercises and combination apparatus work. *One hour lecture and *two hours practice a week.*

3. PHYSICAL TRAINING.—An elective advanced course. **Two hours gymnasium and two hours lecture.*

4. PHYSICAL TRAINING.—A continuation of Course 3. *Two hours gymnasium and two hours lecture.*

5. PRACTICAL HYGIENE.—*Two hours a week.*

6. PRACTICAL HYGIENE.—A continuation of Course 5. *Two hours a week.*

7, 8. PHYSICAL TRAINING.—A course for all women students of the first year and for students of second year Home Economics. Class formation; free exercises; elementary dumb-bell, Indian club, wand drills; folk-dancing and games. Attention is given to first principles of deportment. *Three hours a week.*

Maine Agricultural Experiment Station

STATION STAFF

CHARLES DAYTON WOODS, Sc. D., *Director*
JAMES MONROE BARTLETT, M. S., *Chemist*
WARNER JACKSON MORSE, Ph. D., *Plant Pathologist*
*RAYMOND PEARL, Ph. D., *Biologist*
EDITH MARION PATCH, Ph. D., *Entomologist*
*FRANK MACY SURFACE, Ph. D., *Biologist*
HERMAN HERBERT HANSON, M. S., *Associate Chemist*
ROYDON LINDSAY HAMMOND, *Seed Analyst and Photographer*
*JOHN RICE MINER, B. A., *Computer*
JACOB ZINN, Agr. D., *Assistant Biologist*
MICHAEL SHAPOVOLOV, M. S., *Assistant Pathologist*
ELMER ROBERT TOBEY, M. S., *Assistant Chemist*
JOHN WHITMORE GOWEN, Ph. D., *Assistant Biologist*
SILVIA PARKER, B. A., *Assistant Biologist*
GLEN BLAINE RAMSAY, A. M., *Assistant Plant Pathologist*
JOHN HOWARD PERRY, B. A., *Assistant Chemist*
HAROLD LOUIS KING, B. S., *Assistant Chemist*
CHARLES HARRY WHITE, Ph. C., *Scientific Aid*
WALTER EDSON CURTIS, *Scientific Aid*

*On leave of absence without pay

GOVERNMENT OF THE STATION

By authority of the trustees the affairs of the Station are considered by the Station Council (see page 6), composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads of the various departments of the Station, the Dean of the College of Agriculture, the Commissioner of Agriculture,

EXPERIMENT STATION

and one member each from the State Pomological Society, the State Grange, the State Dairymen's Association, the Maine Live Stock Breeders' Association, and the Maine Seed Improvement Association. The recommendations of the Council are referred to the trustees for final action. The Director is the executive officer of the Station and the other members of the staff carry out the lines of research that naturally come under their departments.

INCOME

The income of the Station for the year 1916-17 will probably be about \$60,000 from the following sources: Federal government, Hatch and Adams funds, \$30,000; State appropriations for animal husbandry investigations and investigations upon Aroostook Farm, \$5,000 each; sale of produce about \$8,000; analyses for the Commissioner of Agriculture about \$12,000. Thru appropriations to the university the State provides for the cost of printing Station publications. This aggregates about \$4,000 annually.

OBJECT

The purpose of the agricultural experiment stations is defined in the Act of Congress establishing them as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments on the physiology of plants and animals; the diseases to which they are severally subject, with the remedies for the same; the chemical composition of useful plants at their different stages of growth; the comparative advantages of rotative cropping as pursued under a varying series of crops; the capacity of new plants or trees for acclimation; the analysis of soils and water; the chemical composition of manures, natural and artificial, with experiments designed to test their comparative effects on crops of different kinds; the adaptation and value of grasses and forage plants; the composition and digestibility of the different kinds of food for domestic animals; the scientific and economic questions involved in the production of butter and cheese; and such other researches or experiments bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective states or territories."

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The work that the Station can undertake from the Adams Act fund is more restricted, as the fund can "be applied only to paying the necessary expenses for conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."

EQUIPMENT

Most of the Station offices and laboratories are in Holmes Hall, described on page 25. The Station is well equipped in laboratories and apparatus, particularly in the lines of biological, chemical, entomological, horticultural, pomological, plant pathological, and poultry investigations. It has extensive collections illustrating the botany and entomology of the State. It has a library of over 4,200 volumes comprising agricultural and biological journals and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station "shall conduct scientific investigations in orcharding, corn, and other farm crops." The farm is situated in the counties of Kennebec and Androscoggin, largely in the town of Monmouth. It is on the Farmington branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, "Highmoor," is on the farm.

The farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. There are in the neighborhood of 3,000 apple trees upon the place which have been set from 20 to 30 years. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house has two stories with a large wing, and contains about fifteen rooms. It is well arranged for the Station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain. The basement affords limited storage for apples, potatoes, and roots.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be

EXPERIMENT STATION

under "the general supervision, management, and control" of the Maine Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on the main road to Houlton. The Bangor and Aroostook railroad crosses the farm. A flag station, "Aroostook Farm," makes it easily accessible by rail.

The farm contains about 275 acres, about half of which is cleared. The eight room house provides an office, and home for the farm superintendent. The large barn affords storage for hay and grain and has a large potato storage house in the basement.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, and entomological research.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, foods, fungicides, and insecticides. The law requires the Commissioner to collect samples and have them analyzed at the Station. The law also requires the Director of the Station to make the analyses and publish the results.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year form a volume of 300 to 400 pages

UNIVERSITY OF MAINE

and together make up the Annual Report. Bulletins are sent to the press of the State, to exchanges, libraries, and scientific workers. Bulletins which contain matter of immediate value to practical agriculture are sent free to residents of Maine whose names are on the permanent mailing list.

The results of the work of inspection are printed in pamphlet form and are termed Official Inspections. About twelve such pamphlets, aggregating 150 to 200 pages, are printed annually, and are bound as an appendix with the Annual Report. Official Inspectors are sent to dealers within the State; those that have to do with fertilizers, feeding stuffs, and seeds are sent to farmers, and those reporting food and drugs are sent to a list of several thousand women within the State.

The Miscellaneous Publications consist of newspaper bulletins, circulars, and similar fleeting publications. From twenty to thirty are published each year and are sent to different addresses according to the nature of the subject matter.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive either or both the Bulletins and Official Inspections as they are published.

Summer Term

The work of the Summer Term is coordinate with that of the remainder of the year. The majority of the courses offered are of college grade, and, when completed, entitle the student to full credit on the university books. There are no examinations for admission, and students are permitted to enter any class in which they may satisfactorily carry on the work. Before counting this work toward a collegiate degree, the entrance conditions must be met.

Three classes of students may be benefited by the work of this term:

1. Teachers in the high schools and grammar schools who desire to fit themselves for more advanced positions.

2. Students who desire to anticipate work in their curricula, or who may have work in arrears. A student should be able to make one unit, the equivalent of a five hours' subject for eighteen weeks.

3. Courses in physics, mathematics, Latin, and other subjects are offered covering the work of the high school. In this way a student who is slightly deficient at the end of the school year may prepare himself for college. These courses give no credit on the university books.

COURSES OF STUDY

During the summer of 1917 courses were offered in the following subjects: Chemistry, Education, English, French, German, History, Horticulture, Latin, Mathematics, Physics, Sociology, and Spanish. These courses are described in connection with the courses offered at the university during the remainder of the year.

DAILY ASSEMBLY

Each morning except Saturdays and Sundays the faculty and students meet in the Chapel at 10.15 for a brief assembly. A short religious service is held, including a song service, and an address is given on some topic of current interest.

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LIBRARY

Thruout the Summer Term, the university library reading rooms are open from 9 A. M. to 12 P. M. and from 2 P. M. to 5 P. M., daily, except Saturday afternoon and Sunday. The library privileges ordinarily accorded students, including the home use of books, are extended to students in the Summer Term.

LABORATORIES AND OBSERVATORY

The laboratories of the Departments of Physics and Chemistry are available for use of the students. There is ample provision for carrying on the various courses from the preparatory work to that of the graduate student. All necessary apparatus is supplied to the student without charge; a small charge is made to cover the cost of the articles used. The departments are well equipped with modern apparatus.

The Observatory contains an eight-inch telescope, vertical circle, and other instruments of precision. The work of the Observatory will be explained by Professor Hart in an evening lecture.

RECREATION

The athletic field of the university is available for use. Certain afternoons from four to six are set aside each week for baseball games and other athletic events. A tennis tournament is organized for those interested.

Under the management of a permanent committee appointed for that purpose, tramps, picnics, and longer trips to various places of interest will be arranged, as well as more informal occasions on the campus where the students have opportunity to meet one another and the members of the faculty.

For the further entertainment of the Summer Term students and their friends, the gymnasium will be open one evening of each week, where music will be furnished and opportunity afforded for informal social intercourse.

EXPENSES

Tuition

For residents of Maine, \$12.00.

For residents of other states, \$18.00.

SUMMER TERM

An additional charge of \$1 an hour is made for registration in excess of fifteen hours a week.

Tuition covers all charges for instruction up to fifteen hours a week, use of library and laboratories, except a small additional fee covering cost of materials used in the laboratories. This fee must be paid upon registration.

Rooms for Men

There are two dormitories for men, Oak Hall and Hannibal Hamlin Hall. Rooms may be obtained for \$2.00 a week for one person or \$2.50 with two in a room. In Hannibal Hamlin Hall there are a few higher priced rooms.

Rooms for Women

The dormitory used for women students in the Summer Term on the campus is Balentine Hall. The rates are \$2.00 a week, one in a room, or \$2.50 with two in a room.

Meals

In the dining room of Balentine Hall meals are served for \$5.00 a week.

The University Inn, located in the village of Orono, is under university management and is open for summer students. Rooms in private families may be secured for those who prefer them.

Men who wish to bring their families should write early. Special effort will be made to secure suitable accommodations for them.

IN GENERAL

Prospective students are invited to consult Dean J. S. Stevens, or any of the instructors, for further details regarding any of the courses, or upon any subject relating to the work. It is the wish of the authorities to offer such courses as will best appeal to the teachers of Maine, and others who desire to avail themselves of these privileges.

If there should be considerable demand for other studies than those named, arrangements will be made to provide for them as far as practicable. In case the registration for any course offered falls below a certain minimum, it may be withdrawn. The list of instructors and the

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courses outlined in this catalog were for the summer of 1917. Unimportant changes are likely to be made in 1918.

A Summer Term Bulletin announcing courses to be given in 1917, will be issued about March 1, 1918. A copy will be mailed upon application.

ALUMNI ASSOCIATIONS

Alumni Associations

GENERAL ASSOCIATION

President, Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.

Vice President, Elmer J. Wilson, 1907, 15 Clough St., Lynn, Mass.

Recording Secretary, Alumni Secretary, Lowell J. Reed, 1907,

Treasurer, James A. Gannett, 1908, Orono

Nicrologist, James N. Hart, 1885, Orono

ADVISORY COUNCIL

AT LARGE

	Term Expires
George H. Hamlin, 1873, Orono.....	1917
Albert H. Brown, 1880, Old Town.....	1917
Louis C. Southard, 1875, 601 Tremont Building, Boston Mass.	1918
Charles E. Oak, 1876, 39 Hammond St., Bangor.....	1918
Perley B. Palmer, 1896, Orono.....	1919
Allen W. Stephens, 1899, 120 West 57th St., New York, N. Y.	1919
Paul L. Bean, 1904, State House, Augusta.....	1920
Charles C. Elwell, 1878, 71 College St., New Haven, Conn.	1920
Edward H. Kelly, 1890, 2 Fairmount Park, East, Bangor....	1921
C. Parker Crowell, 1898, 44 Central St., Bangor.....	1921

College of Agriculture

Whitman H. Jordan, 1875, Geneva, N. Y.....	1919
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College of Arts and Sciences

DeForest H. Perkins, 1900, City Hall, Portland.....	1921
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College of Law

Bernard Archibald.....	1920
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UNIVERSITY OF MAINE

College of Technology

George F. Black, 1886, 238 St. John St., Portland..... 1918

SPECIAL ASSOCIATIONS

COLLEGE OF LAW

President, James M. Gillin, 1913, 12 Columbia Building, Bangor

Vice President, Forrest B. Snow, 1909, Bluehill

Secretary, Mark A. Barwise, 1913, 101 Third St., Bangor

Treasurer, Charles H. Reid, Jr. 1903, 7 Hammond St., Bangor

SCHOOL AND TEACHERS' COURSES IN AGRICULTURE

President, Walter S. Jones, 1912, State Hospital, Bangor

Vice Presidents, George P. Fogg, 1908; Arthur W. Richardson, 1913

Secretary-Treasurer, Perley F. Smith, 1912, R. F. D. 1, East Brownfield

LOCAL ASSOCIATIONS

Androscoggin Valley.—President, Walter L. Emerson, 1909; Secretary, Charles B. Hosmer, 1911, 64 Lisbon St., Lewiston

Boston.—President, Louis C. Southard, 1875; Secretary Wayland D. Towner, 1914, 37 Winsor Ave., Watertown, Mass.

Knox County.—President, A. P. Starrett, 1882; Secretary, R. S. Sherman, 1906, Tillson Wharf, Rockland

New York.—President, Albert E. Mitchell, 1875; Secretary, Ashton H. Hart, 1911, 161 Emerson Pl., Brooklyn, N. Y.

Pacific.—President, George R. Sweetser, 1909; Secretary, Walter W. Black, 1907, 527 Taylor St., Portland, Ore.

Penobscot Valley.—President, J. Harvey McClure, 1905; Secretary, William R. Ballou, 1912, 50 Blackstone St., Bangor

Pittsburgh.—President, J. Wilson Brown, 1899; Secretary, Carl D. Smith, U. S. Bureau of Mines, 40th and Butler Sts.

Washington, D. C.—President, Lore A. Rogers, 1896; Secretary, Henry W. Bearce, 1906, Bureau of Standards

Western.—President, Charles A. Morse, 1879; Secretary, Samuel B. Lincoln, ex-1905, 1231 First National Bank Building, Chicago, Ill.

Western Maine.—President, Edwin J. Haskell, 1872; Secretary, Albert E. Anderson, 1909, Masonic Temple, Portland

APPOINTMENTS

Appointments

SPEAKERS AT THE JUNIOR EXHIBITION

Walter Joseph Creamer, Jr., Bangor; Dorothy Louise Folsom, Norridgewock; Robert Henry Hawthorne, Brownville; Helen Loggie Stuart, Bangor; Lee Vrooman, Greenville.

MEMBERS OF PHI KAPPA PHI

Charles William Bayley, Wells; Elizabeth Mason Bright, Bangor; Grace Bristol, West Hartford, Conn.; Leola Chaplin, Cornish; Sumner Chase Cobb, Woodfords; Perley Harvey Ford, Mechanic Falls; Grace Mabel Gibbs, East Orland; Mary Violetta Harrison, Freeport; Edith Ingraham, Bangor; Michael Clarence Kelleher, Jr., Westerly, R. I.; Philip Nason Libby, Gray; Dorothy Mercier, Princeton; Elizabeth Cornelia Phelps, Foxboro, Mass.; Clarence Llewellyn Smith, Vinalhaven; Forest Reuben Treworgy, Ellsworth; William Gustavus Wahlenberg, Thompsonville; Harvey Cyrus Waugh, Levant; Lawrence Blanchard Wood, Kingfield.

MEMBERS OF TAU BETA PI

1917

Earl Robertson Brawn, South Portland; Worthen Earle Brawn, Bath; Elwood Irvin Clapp, Brewer; Everett St. Claire Hurd, Pittsfield; Gerald Coker Marble, Skowhegan; Leland Monroe Mower, Auburn; Charles Augustine Sawyer, Portland; Clarence Llewellyn Smith, Vinalhaven; Marshall Odell Smith, Yarmouthville; George Knowlton Wadlin, East Northport; Harvey Cyrus Waugh, Levant; Roy Alva Wentzel, Livermore Falls; Elwood Morton Wilbur, Sorrento.

1918

Ernest Victor Cram, Sanford; Walter Joseph Creamer, Bangor; Everett Ellsworth Emmons, Portland; Weston Sumner Evans, South

UNIVERSITY OF MAINE

Windham; Robert Gerry Hurd, Bangor; Charles Neal Merrill, Bangor; Miles Standish Perkins, Worcester, Mass.; Alfred Mason Russell, Rangeley; Thomas Francis Shea, Bangor; Clarence Barrows Springer, Portland; Dolore Frank Theriault, Millinocket; Ernest Julian Turner, Brewer.

1919

Ivan Stevens Hanson, Winter Harbor.

MEMBERS OF ALPHA ZETA

1918

Hugh Curtis McPhee, South Paris; James Lester Morse, Bath; Ferdinand Josiah Penley, Auburn; Hollis Leroy Ramsdell, West Lubec; Lee Vrooman, Greenville.

1919

Samuel Wilson Collins, Caribou; Clifford Dawes Denison, Harrison; James Hayes Pulsifer, Auburn.

GENERAL HONORS

Charles William Bayley, Wells; Leroy Nahum Berry, South Bridgton; Elizabeth Mason Bright, Bangor; Grace Bidwell Bristol, West Hartford, Conn.; Leola Bowie Chaplin, Cornish; Elwood Irvin Clapp, Brewer; Sumner Chase Cobb, Woodfords; Charles Edward Crossland, Lawrence, Mass.; Grace Mabel Gibbs, East Orland; Mary Violetta Harrison, Freeport; Edith Louise Ingraham, Bangor; Michael Clarence Kelleher, Jr., Westerly, R. I.; Harry Cummings Libby, Portland; Philip Nason Libby, Gray; Dorothy Mercier, Princeton; Elizabeth Cornelia Phelps, Foxboro, Mass.; Cecil James Siddall, Sanford; Clarence Llewellyn Smith, Vinalhaven; Marshall Odell Smith, Yarmouthville; Charles Lindsley Stephenson, Orono; Rudolph Stoeck, Sabattus, Forrest Reuben Treworgy, Ellsworth; William Gustavus Wahlenberg, Thompsonville, Conn.; Harvey Cyrus Waugh, Levant; Donald Stuart Welch, Norway; Lawrence Blanchard Wood, Kingfield.

APPOINTMENTS

SENIORS WHO HAVE SATISFACTORILY COMPLETED THE COURSES IN MILITARY SCIENCE

Howard Lawrence Jenkins, Methuen, Mass.; Nelson Fountain Mank, Portland; Francis Thomas McCabe, Worcester, Mass.; William Florance O'Donoghue, Orono; George C. Robinson, Westbrook; Charles Lindeley Stephenson, Orono; Robert James Travers, Bangor; Herbert Everett Watkins, Portland.

ORGANIZATION OF THE UNIVERSITY OF MAINE REGIMENT

Major Frank R. Lang, U. S. Army,
Commandant

Instructor Major C. L. Stephenson, R. O. T. C., Assistant

Headquarters Company	Cadet Captain F. E. Donovan, Regimental Adjutant
Supply Company	Cadet Captain J. C. F. Darrah, Regimental Supply Officer Cadet 2nd Lieutenant R. W. Averill

FIRST BATTALION

Cadet Major H. G. Lackee, Commanding

Cadet 1st Lieutenant H. M. Pierce, Battalion Adjutant

Company A	Cadet Captain Cadet 1st Lieutenant Cadet 2nd Lieutenant	A. C. Sturgis W. Wight S. W. Collins
Company B	Cadet Captain Cadet 1st Lieutenant Cadet 2nd Lieutenant	E. A. Riley C. L. Caswell K. T. Young
Company C	Cadet Captain Cadet 1st Lieutenant Cadet 2nd Lieutenant Cadet 2nd Lieutenant	C. P. Larrabee S. N. Holt M. A. Mitchell C. D. Denison

UNIVERSITY OF MAINE

SECOND BATTALION

Cadet Major D. M. Libby, Commanding

Cadet 1st Lieutenant S. E. Jones, Battalion Adjutant

Company D	Cadet Captain	H. N. Robbins
	Cadet 1st Lieutenant	C. M. Ziegler
	Cadet 2nd Lieutenant	C. A. Duncan
Company E	Cadet Captain	A. B. Rowe
	Cadet 1st Lieutenant	C. M. Winter
	Cadet 2nd Lieutenant	R. M. Kendall
Company F	Cadet Captain	N. D. Plummer
	Cadet 1st Lieutenant	L. E. Merrow
	Cadet 2nd Lieutenant	C. F. Niles

PRIZES AWARDED

Kidder Scholarship, Myles Standish Perkins, Worcester, Mass.; Alternate, Weston Sumner Evans, South Windham.

Western Alumni Association Scholarship, Edward Carroll Fossett, Bristol.

Pittsburgh Alumni Association Scholarship, Ernest Victor Cram, Sanford.

Junior Exhibition Prizes, Lee Vrooman, Greenville; Helen Loggie Stuart, Bangor.

Holt Prizes, Edmund James Dempsey, Orono; William Joseph Gorham, Portland; Frank Alexander French, Orono.

Walter Balentine Prize, Ernest Julian Turner, Brewer.

Franklin Danforth Prize, Charles William Bayley, Wells.

Kennebec County Prize, Frederick Paul Jones, Biddeford; Ralph Erle Sawyer, Buxton.

Pharmacy Prize, Frank Edward Berridge, East Lynn, Mass.

COMMENCEMENT

Commencement

The Commencement exercises of 1917 were as follows:

SATURDAY, JUNE 9

- 5.00 P. M. Annual Meeting of Phi Kappa Phi, the Library
- 6.00 P. M. Annual Banquet of Phi Kappa Phi, Hannibal Hamlin Hall

SUNDAY, JUNE 10

- 10.30 A. M. Baccalaureate Address, by Robert Judson Aley, Ph. D.,
President of the University of Maine
- 7.00 P. M. Vesper Service, Orono Universalist Church

MONDAY, JUNE 11

- 9.00 A. M. Exercises, by the Women of the Class of 1917, the Campus
- 2.00 P. M. Class Day Exercises, Assembly Hall
- 2.30 P. M. Meeting of the Alumni Advisory Council, the Library
- 4.00 to 6.00 P. M. Open House at Fraternity Houses and the Women's
Dormitories
- 7.30 to 9.30 P. M. President's Reception, the Library
- 9.30 P. M. Fraternity Reunions, the Fraternity Houses

TUESDAY, JUNE 12

- 10.00 A. M. Concert, by the Women's Musical Clubs, Assembly Hall
- 10.00 A. M. Annual Meeting of the College of Law Alumni Association,
Stewart Hall
- 4.30 to 6.30 P. M. Alumni Luncheon, the Gymnasium
- 4.30 to 6.30 P. M. Alumnae Luncheon, Assembly Hall
- 6.30 P. M. Annual Meeting of the General Alumni Association, Assem-
bly Hall
- 8.00 P. M. "Midsummer Night's Dream," by Women Students, Assem-
bly Hall

UNIVERSITY OF MAINE

WEDNESDAY, JUNE 13

- 9.30 A. M. Commencement Exercises, the Campus; Address by Honorable Charles F. Johnson
- 11.30 A. M. "Leavetaking," by the Class of 1917, the Campus
- 12.00 M Commencement Luncheon, the Gymnasium
- 8.00 P. M. Commencement Ball, the Gymnasium

DEGREES CONFERRED

Degrees Conferred

College of Agriculture

BACHELOR OF SCIENCE

Frederick Harlow Aikins (in Dairy Husbandry).....	South Windham
Harold Pierce Andrews (in Forestry).....	Monmouth
Charles William Bayley (in Dairy Husbandry).....	Wells
Leroy Nahum Berry (in Animal Husbandry).....	South Bridgton
Arthur Nile Blanchard (in Dairy Husbandry).....	Cumberland Center
Grace Bidwell Bristol (in Home Economics).....	West Hartford, Conn.
Brooks Brown (in Dairy Husbandry).....	Dover
Raymond Murray Callahan (in Animal Husbandry).....	Sabattus
Charles Edward Crossland (in Animal Husbandry).....	Lawrence, Mass.
Richard Bousby Dodge (in Poultry Husbandry).....	Machias
Alfreda Ellis (in Home Economics).....	Belfast
Earle Leslie Emery (in Animal Husbandry).....	Salisbury Cove
Marion Emery (in Home Economics).....	Limerick
Avery Meader Fides (in Animal Husbandry).....	Orr's Island
Daniel Emerson Green (in Animal Husbandry).....	Brewer
Russell Sanford Greenwood (in Animal Husbandry).....	Presque Isle
Guy Bradford Hamilton (in Dairy Husbandry).....	Portland
Edward Kavanaugh Hanly (in Forestry).....	Thomaston
George Edward Hansen (in Forestry).....	Worcester, Mass.
Weston Bradford Haskell (in Dairy Husbandry).....	Auburn
Howard Bryant Hiller (in Dairy Husbandry).....	Marion, Mass.
Flora Adelaide Howard (in Home Economics).....	Bangor
Daniel Clair Hutchinson (in Agronomy).....	Dover
Howard Lawrence Jenkins (in Animal Husbandry).....	Methuen, Mass.
Hazel Irene Lane (in Home Economics).....	Lewiston
Philip Nason Libby (in Forestry).....	Gray
Ruth Evelyn March (in Home Economics).....	Easton
Herbert Hodges McCobb (in Agronomy).....	Lincolnville

UNIVERSITY OF MAINE

Charles Leo Moody (in Horticulture).....	North Monmouth
William Florance O'Donoghue (in Forestry).....	Orono
Clara Estelle Partridge (in Home Economics).....	Pemaquid Beach
Charles Clifton Penney (in Animal Husbandry).....	Lewiston
William Eugene Reynolds (in Dairy Husbandry).....	Northeast Harbor
Ruth Merrill Ricker (in Home Economics).....	Lisbon
Carl Elmo Robinson (in Dairy Husbandry).....	Bangor
John Leslie Scribner (in Agronomy).....	Plattsburg, N. Y.
William Andrew Simpson (in Horticulture).....	Marlboro, Mass.
Charles Lindsley Stephenson (in Agronomy).....	Orono
Raymond Benson Steward (in Dairy Husbandry).....	Portland
Rudolph Stoehr (in Dairy Husbandry).....	Sabattus
Richard Stoughton (in Horticulture).....	Montague, Mass.
Roy Frank Thomas (in Dairy Husbandry).....	Monson
William Gustavus Wahlenberg (in Forestry).....	Thompsonville, Conn.
Russell Vale Waterhouse (in Animal Husbandry).....	Kennebunk
Donald Stuart Welch (in Biology).....	Norway
James Arthur Whittemore (in Forestry).....	Bangor
Lawrence Blanchard Wood (in Animal Husbandry).....	Kingfield

College of Arts and Sciences

BACHELOR OF ARTS

Elizabeth Mason Bright (Biology).....	Bangor
Ruth Ellen Brown (English).....	Brewer
Leola Bowie Chaplin (English).....	Cornish
Sumner Chase Cobb (Mathematics).....	Woodfords
Parkman Abbott Collins (Biology).....	Readfield Depot
Lincoln Brackett Copp (Economics & Sociology).....	Cornish
Fred Donald Crowell (Economics & Sociology).....	Bangor
George Elmer Dole (Economics & Sociology).....	Haverhill, Mass.
Charles Irving Emery (Mathematics).....	Salisbury Cove
Robert Kemble Fletcher (Biology).....	Orono
Nathaniel Frederick Forsyth (Economics & Sociology).....	Orrington
Langdon Jackson Freese (Mathematics).....	Bangor
Frank Alexander French (Economics & Sociology).....	Orono
Laurel Osgood Gerry (German).....	Brownville
Grace Mabel Gibbs (Biology).....	East Orland
Noel Davis Godfrey (Economics & Sociology).....	South Lubec

DEGREES CONFERRED

Frances Louise Gonyer (French).....	Orono
William Joseph Gorham (Economics & Sociology).....	Portland
Benjamin Elwell Grant (Economics & Sociology).....	Cumberland Mills
Mary Violetta Harrison (German).....	Freeport
Dorrice Mae Higgins (French).....	Brewer
Royal Grant Higgins (Mathematics).....	Bar Harbor
Yee Tin Hugh [LL. B., Valparaiso, 1915] (Philosophy)....	Canton, China
Lilian Crosby Hunt (English).....	Old Town
Edith Louise Ingraham (German).....	Bangor
Maurice Jacobs (Biology).....	Methuen, Mass.
Walter Converse Jones (Economics & Sociology).....	Portland
John Henry Kiernan (Mathematics).....	Wareham, Mass.
George Washington Kilburn (Mathematics).....	Fort Fairfield
Cecil Dow MacIlroy (History).....	Milo
John Henry Magee (English).....	Bangor
Royce Delano McAlister (Education).....	Bucksport
Joseph Aloysius McCusker (Biology).....	Orono
John Henry Melincoff (German).....	Bangor
Dorothy Mercier (Latin).....	Princeton
Katharine Buffum Merrill (English).....	Orono
Helen Carew Moloney (English).....	Orono
Parker Nash Moulton (Biology).....	Bath
Stanley Francis Needham (Economics & Sociology).....	Old Town
Raymond Ambrose Pendleton (Mathematics).....	Brewer
Mildred Geneva Perry (French).....	Orono
Henry Andrew Peterson (Biology).....	Portland
Elizabeth Cornelia Phelps (German).....	Foxboro, Mass.
Howard Lester Pierson (Chemistry).....	Auburn
Linwood True Pitman (English).....	Augusta
Glenn Carleton Prescott (Economics & Sociology).....	Kezar Falls
Edward Carleton Remick (Physics).....	Springvale
Doris Savage (German).....	Bangor
Frank Owen Stephens (English).....	Auburn
Jessie May Sturtevant (English).....	Milo
Forrest Reuben Treworgy (Physics).....	Ellsworth
Frances Andrews Wood (French).....	Bar Harbor

BACHELOR OF PEDAGOGY

Jessie Willett Coombs.....	Waldoboro
Carlton Whaton Maddocks.....	Nicolin

UNIVERSITY OF MAINE

Blanche Laurretta Murphy.....	Portland
Mable Thurston Murray.....	Boothbay Harbor
Veysey Hiram Robinson.....	Bristol
Claude Lyndon Sidelinger.....	Washington

College of Law

BACHELOR OF LAWS

Dudley Baldwin.....	Cherryfield
Wade Lawrence Bridgham.....	Bridgton
Cecil Earl Brown.....	Norway
Clyde Raymond Chapman (A. B. Bowdoin, 1912).....	Fairfield
John Henry Corridon.....	Portland
Paul Edwin Donahue (A. B. Bowdin, 1914).....	Portland
Edwin Charles Dufficy.....	Rumford
Perley Harvey Ford.....	Mechanic Falls
Erald Harmon.....	Westbrook
Herbert Vaughn Haskell.....	Lincoln
Harold William Hollis.....	Lisbon Falls
Earl Dewey Hooker.....	Bangor
Harold William Hurley.....	Wareham, Mass.
Michael Clarence Kelleher, Jr.....	Westerly, R. I.
Harry Cummings Libby.....	Portland
Adelbert Laroy Miles.....	Ellsworth
Mayland Herbert Morse.....	Anson
Abraham Moses Rudman.....	Bangor
Cecil James Siddall.....	Sanford
James Bennett Watson.....	Bangor

College of Technology

BACHELOR OF SCIENCE

Ivan Cecil Ames (in Civil Engineering).....	North Haven
Warren Bigelow Beckler, Jr. (in Chemical Engineering).....	Auburn
Samuel Solomon Berger (in Chemical Engineering)....	Lawrence, Mass.
Louis Abraham Bernstein (in Civil Engineering).....	Auburn
Altie Franklin Brackett (in Electrical Engineering).....	Berwick
Ralph Baldwin Brasseur (in Civil Engineering).....	Bradford, Mass.
Earl Robertson Brawn (in Electrical Engineering).....	South Portland

DEGREES CONFERRED

Worthern Earle Brawn (in Chemical Engineering).....	Bath
John Andrew Aloysius Burke (in Mechanical Engineering).....	Portland
Paul Everett Chadbourne (in Mechanical Engineering).....	Biddeford
Elwood Irvin Clapp (in Chemical Engineering).....	Brewer
James Coharn Creeden (in Civil Engineering).....	Brooklyn, N. Y.
Edmund James Dempsey (in Chemistry).....	Orono
Walter Elwood Farnham (in Mechanical Engineering).....	Orono
Ernest Leslie Fickett (in Mechanical Engineering).....	Portland
Ralph Ervin Fraser (in Mechanical Engineering).....	Presque Isle
Eltz Chester Guiou (in Civil Engineering).....	Presque Isle
Bryant Lealand Hopkins (in Civil Engineering).....	North Haven
Everett St. Claire Hurd (in Electrical Engineering).....	Pittsfield
Frederick Paul Jones (in Electrical Engineering).....	Biddeford
Harold Louis King (in Chemistry).....	Orono
Theodore Edward Kloss (in Chemical Engineering)....	Kennebunkport
Nelson Fountain Mank (in Mechanical Engineering).....	Portland
Wilbur Leonard Mathews (in Electrical Engineering).....	Berwick
Joseph Wendell Moulton (in Civil Engineering).....	Rutland, Mass.
Clyde Fletcher Mower (in Mechanical Engineering).....	Dexter
Leland Monroe Mower (in Civil Engineering).....	Auburn
Charles Emerson Mullen (in Chemical Engineering).....	Bangor
Lawrence Edmund Mulloney (in Mechanical Engineering).....	Portland
William Edmund Nash (in Civil Engineering).....	Concord, N. H.
Maxwell Newton (in Chemical Engineering).....	Kent's Hill
Foster Nowell (in Civil Engineering).....	Reading, Mass.
Garth Albert Noyes (in Electrical Engineering).....	Orono
Schuyler Colfax Page, Jr. (in Electrical Engineering).....	Caribou
Harold Sawyer Pemberton (in Civil Engineering).....	Groveland, Mass.
Edward Adolphus Perkins (in Electrical Engineering).....	Old Orchard
John Howard Perry (in Chemistry).....	Lincoln
Stanley Gilkey Phillips (in Civil Engineering).....	Westbrook
Ralph Bartlett Pierce (in Chemistry).....	Beverly, Mass.
Lawrence Leicester Post (in Civil Engineering).....	Alfred
Leslie Edward Preble (in Chemical Engineering).....	Saco
William Henry Prentice (in Mechanical Engineering).....	Round Pond
Levi Thaddeus Rowley (in Mechanical Engineering)....	Hartford, Conn.
Charles Augustine Sawyer (in Mechanical Engineering).....	Portland
Ralph Erle Sawyer (in Electrical Engineering).....	Buxton
Fuller Gustavus Sherman (in Chemistry).....	Randolph

UNIVERSITY OF MAINE

Clarence Llewellyn Smith (in Mechanical Engineering).....Vinalhaven
Marshall Odell Smith (in Chemical Engineering).....Yarmouthville
Miner Reginald Stackpole (in Civil Engineering).....Sanford
Stanley Waldron Stoddard (in Electrical Engineering).....Bingham
Robert James Travers (in Electrical Engineering).....Bangor
George Knowlton Wadlin (in Electrical Engineering)....East Northport
Herbert Everett Watkins (in Chemistry).....Woodfords
Harvey Cyrus Waugh (in Mechanical Engineering).....Levant
Elwood Morton Wilbur (in Civil Engineering).....Sorrento

Graduate in Pharmacy

Frank Edward Berridge.....East Lynn, Mass.
Roger Hopkins Clark.....Warren
Samuel Dorfman.....Portland
Gerald Leroy Mackenzie.....West Franklin
Helen Antoinette Simpson.....Waterville

Advanced Degrees

MASTER OF ARTS

Lloyd Carroll Allen (Chemistry) [A. B., Bates, 1914].....Auburn
Emily Mary Bartlett (Biology) [B. A., 1912].....Orono
William David Fuller (Education) [Ph. B. Wisconsin, 1910]...Old Town
Chester Squire Phinney (German) [B. A., 1911].....Pawtucket, R. I.
Albert Ames Whitmore (History) [B. S., 1906].....Orono

MASTER OF LAWS

Stacy Clifford Lanpher (B. A., 1908, LL. B., 1915).....Foxcroft

MASTER OF SCIENCE

Thomas Everett Fairchild (Biology) [B. S., 1916].....Livermore, Falls
Ramanathapur Sitarama Rao (Chemistry) [B. Sc. Bombay, 1913].....
Bungalore, India
Elmer Robert Tobey (Chemistry) [B. S., 1911].....Orono
Oscar Milton Wilbur (Biology) [B. S., 1915].....Orono

CHEMICAL ENGINEER

Fred Earle Dearborn (B. S., 1914).....Huntington, Penna.

DEGREES CONFERRED

CIVIL ENGINEER

Charles Samuel Gerrish (B. S., 1911).....Oil City, Penna.
Frank Hodgkins Lancaster (B. S., 1912).....Richmond Hill, N. Y.

MECHANICAL ENGINEER

Philip Garland (B. S., 1912).....New York, N. Y.

Certificates

IN HOME ECONOMICS

Gladys Leone Hamor.....Bangor
Mildred Estelle Leighton.....Orono
Aleida Elizabeth Little.....Portland
Maria Augusta Mooney.....Orono
Lula Frances Sawyer.....Brewer

IN THE SCHOOL COURSE IN AGRICULTURE

Carl Frank Adams.....Kennebunkport
Alton Howard Benson.....Kennebunkport
Arthur Walter Beverage.....Pulpit Harbor
Harry Elmer Bickford.....Searsmont
Earl Stanley Brown.....Presque Isle
Conrad Walfrid Hagstrom.....Auburn, Mass.
Franklin Oscar Jacobs.....West Berlin, Mass.
Foster Davis Jameson.....Friendship
Ralph Granville Kyes.....North Jay
Mason Henry Marshall.....Topsham
Stanley Bradbury Parker.....South Leeds
Raymond Fowles Pendleton.....Camden
Charles Lewis Pratt.....Yarmouthville
Daniel Cleveland Sullivan.....Lubec
Fletcher Alton Thomas.....Leeds Center
Arthur Wright Thompson.....Portland
Fred Warren Weeks.....Cornville
Harold Cass Weeks.....Marlboro, Mass.
William Trott Wright.....Woolwich

UNIVERSITY OF MAINE

Catalog of Students

Major subjects are indicated as follows: Ag. Agronomy, An. Animal Industry, Bc. Biological Chemistry, Bl. Biology, Ch. Chemistry, Ch. Eng. Chemical Engineering, Ce. Civil Engineering, Dh. Dairy Husbandry, Es. Economics, Ed. Education, Ee. Electrical Engineering, Eh. English, Fy. Forestry, Fr. French, Gm. German, Gk. Greek Civilization, Hy. History, He. Home Economics, Ht. Horticulture, Lt. Latin, Ms. Mathematics, Me. Mechanical Engineering, Ph. Poultry Husbandry, Pm. Pharmacy, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Si. Spanish and Italian.

GRADUATE STUDENTS

Butters, Arthur Erwin, B. A., Ed. Maine, 1916	<i>Old Town</i>	
Chadbourne, Ava Harriet, B. A., Ed. Maine, 1915	<i>Orono</i>	Mill Street
Goldsmith, Chester Hamlin, B. S., Ch. Maine, 1915	<i>Orono</i>	
Jordan, Maynard Fred, B. S., Ms. Maine, 1916	<i>Islesford</i>	
Merrill, Gladys Helen, B. A., Gm. Maine, 1915	<i>Orono</i>	College Street
Stauffer, Quintin Weaver, Ph. B., Ms. Muhlenberg, 1913	<i>Alburtis, Pa.</i>	University Inn
Stone, Walter Christopher, B. S., Ch. Maine, 1913	<i>Orono</i>	University Inn
St. Onge, Arthur Amos, B. A., Ed. Maine, 1914	<i>Foxcroft</i>	
Webber, Elmer Harrison, B. Pd., Ed. Maine, 1915	<i>Livermore Falls</i>	

SENIORS

Abbott, Voyle Eben, Es.	<i>Albion</i>	A T Ω House
Aikins, Walter Bowen, Dh.	<i>South Windham</i>	309 H. H. Hall

SENIORS

Annis, Howard LeRoy, Fy.
 Barnard, Adriel Fales, Me.
 Blackman, Marie Prince, He.
 Blaisdell, Harvard Wilbur, Es.
 Borjesson, Thomas Whitmore, An.
 Brackett, Robert Emerson, Ps.
 Bransfield, William Henry, Ee.

Brooks, Samuel Stevens, Ed.
 Brown, Clifford, Ce.
 Calhoun, Lewis Tracy, Fy.
 Carlson, Thurston Daniel, Ee.
 Carlton, George Melvin, Ee.
 Chadbourne, Preston Berlin, Dh.
 Chalmers, Ruth Bartlett, Fr.

Chapin, Francis Deering, Me.
 Cole, Raymond Fuller, Es.
 Cram, Beryl Eliza, Eh.
 Creamer, Walter Joseph, Jr., Ee.
 Crosby, Carl Byron, Ee.
 Crosby, Ruth, He.
 Davis, Melvin Linwood, Ee.
 DeBeck, Edith Eirena, Ms.
 Dennett, Winburn Albert, Ht.
 Dow, Kathryn May, He.
 Dunham, Stephen Merle, Me.
 Ellsworth, Harry Arthur, Dh.
 Evans, Weston Sumner, Ce.
 Farrar, Helen Wilcox, Eh.
 Folsom, Dorothy Louise, Gm.
 Frawley, Marie Alice, Sp.
 Gellerson, Vera Elvira, Eh.
 Hall, Sumner Augustus, Dh.
 Harper, William Chesley, Ee.
 Haskell, Pauline Derby, Gm.

Hawthorne, Robert Henry, Ce.
 Head, Francis, Ce.

Lincoln Center A T Ω House
Bucksport Σ X House
Peak Island Mt. Vernon House
North Sullivan 210 H. H. Hall
Richmond 38 North Main Street
Orono 39 Mill Street
Willimantic, Conn.

3 Middle Street
Orono 3 Middle Street
Portland Φ Γ Δ House
Bridgeport, Conn. K Σ House
Hopedale, Mass. Σ A E House
Woolwich Σ N House
Harmony Campus
Bangor

396 Center Street, Bangor
Saco Δ X A House
Brewer Δ T Δ House
New Sharon Balentine Hall
Bangor 24 George Street, Bangor
Brownville Σ A E House
Bangor Mt. Vernon House
Sabattus 311 H. H. Hall
Franklin Balentine Hall
Hopedale, Mass. Σ A E House
Searsport Mt. Vernon House
Lewiston Θ X House
Farmington 411 H. H. Hall
South Windham Δ X A House
East Corinth Balentine Hall
Norridgewock Balentine Hall
Bangor 84 Ohio Street, Bangor
Houlton Mt. Vernon House
Woodfords Δ T Δ House
Gardiner 408 H. H. Hall
Bangor

366 French Street, Bangor
Brownville 82 Main Street
Bangor B Θ II House

UNIVERSITY OF MAINE

Hickson, Eugene Francis, Ch. Eng.
 Hill, Roger Benson, Ch.
 Hogan, Louis William, Ee.
 Hooper, Henry Stimson, Ch.
 Hurd, Robert Gerry, Ch. Eng.
 Johnson, Carl Strong, Dh.
 Jones, Harold Norton, Ee.
 Kellogg, Thelma Louise, Eh.
 Lackee, Hobart Gould, Me.
 Lawrence, Fila Lavina, He.
 Leighton, Ralph Melvin, Ch.
 Lewis, Roscoe Samuel, Hy.
 Libby, Donald Maxwell, Ee.
 Libby, Frank Dexter, Ch. Eng.
 Mason, Alice Eliza, Lt.
 Matheson, Beatrice Louise, He.
 McCabe, Francis Thomas, Ee.
 McPhee, Hugh Curtis, Ag.
 McWilliams, Mona Beatrice, Gm.

Merrill, Charles Neal, Ch. Eng.
 Merrill, Marguerite Frances, He.
 Merritt, Raymond Lowell, Ht.
 Morse, James Lester, An.
 Murphy, William Robert, Dh.
 Newman, Isaiah Leavitt, Me.
 Norton, George Chapman, Ht.
 Oakes, Ralph Gilbraith, Ped.
 O'Brien, Arthur Bartholomew, Pm.
 Penley, Ferdinand Josiah, Dh.
 Perkins, Carl Wakefield, Ch.
 Perkins, Carlton Lincoln, Fy.
 Perry, Donald Burke, Ee.
 Pinkham, Jessie Marie, He.
 Ramsdell, Hollis Leroy, Dh.
 Reed, Gladys Gage, Gm.
 Rich, Robert, Es.
 Ring, Edgar Raymond, Es.
 Robie, Mary Frederica, He.

Bangor 74 Fern Street, Bangor
 Peabody, Mass. Σ N House
 Houlton 25 Grove Street
 Orono 31½ Mill Street
 Orono Φ H K House
 Easthampton, Mass. B Θ Π House
 Peabody, Mass. Σ N House
 Vanceboro Balentine Hall
 Woodfords Δ T Δ House
 Rockland Mt. Vernon House
 Bar Harbor 7 Pleasant Street
 Auburn Σ N House
 Limerick 7 Park Street
 Gardiner Δ T Δ House
 Mount Desert 32 College Street
 Bangor Mt. Vernon House
 Worcester, Mass. Δ T Δ House
 South Paris 209 H. H. Hall
 Bangor

29 Madison Street, Bangor
 Bangor Φ Γ Δ House
 Mechanic Falls Balentine Hall
 Brooks Φ H K House
 Bath Φ Γ Δ House
 Old Town Old Town
 East Wilton 411 H. H. Hall
 Strong 25 Grove Street
 Farmington Falls 303 Oak Hall
 Portland Δ X A House
 Auburn Σ A E House
 Ogunquit 210 H. H. Hall
 Newburyport, Mass. A T Ω House
 Hallowell Φ H K House
 Farmington Balentine Hall
 West Lubec Campus
 Bangor 38 Elm Street, Bangor
 Berlin, N. H. K Σ House
 Orono 3 Summer Street
 Gorham Mt. Vernon House

JUNIORS

Ross, Charlotte Fern, He.
 Russell, Alfred Mason, Me.
 Russell, Doris Ethel, Bl.
 Shaw, Albert Leland, Es.
 Shaw, Reba Cleaves, He.
 Shea, Thomas Francis, Ce.

Spratt, Aubury Johnson, Me.
 Springer, Clarence Barrows, Ee.
 Stinchfield, Helen Louise, Lt.
 Storer, Clayton Alton, Dh.
 Swift, Harold Clayton, Dh.
 Thaanum, Joanna Mary, He.
 Theriault, Dolore Frank, Me.
 Thomas, Marion Louise, He.

Thompson, Seward Roy, Es.
 Turner, Dwight Wilson, Dh.
 Turner, Ernest Julian, Ch. Eng.
 Utecht, Mary Ellen, Eh.
 Vrooman, Lee, Ht.
 Waugh, Evelyn Marguerite, Hy.
 Wentworth, Ralph Carlton, An.
 White, Harry Lincoln, Fr.
 Wilkins, Clyde Lamkin, Ht.

Gardiner Balentine Hall
Rangeley Φ Γ Δ House
Orono 130 College Street
Lewiston Φ Γ Δ House
Orono 56 Park Street
Bangor

154 Parkview Ave., Bangor
Bar Harbor Σ X House
Portland Σ N House
Danforth Balentine Hall
Weld Campus
Auburn Σ X House
Winthrop Balentine Hall
Millinocket 303 H. H. Hall
Newburyport, Mass.

Balentine Hall
Standish 312 H. H. Hall
Buckfield 201 Oak Hall
Brewer Φ H K House
Topsham Stillwater
Greenville Σ X House
Winthrop Balentine Hall
Denmark Σ N House
Belfast K Σ House
Wilton 106 H. H. Hall

JUNIORS

Adams, Chester Norris, Ee.
 Altman, Frank Isadore, Es.
 Anderson, Carl Alfred, Fy.

Astle, Ray Milton, Ch. Eng.
 Averill, Robert Wallace, Ee.
 Beaulieu, Jennie Christina, Fr.
 Brown, Fred Hopkins, Ce.
 Brown, Ralph Lawrence, Bl.
 Butterfield, Clifford Allen, Bl.
 Chellis, Robert Dunning, Ce.

Wilton Φ H K House
Lawrence, Mass. 208 H. H. Hall
East Bridgewater, Mass.
 402 H. H. Hall

Houlton B Θ Π House
Stillwater Stillwater
Old Town Old Town
Bangor B Θ Π House
Cedar Grove Φ Γ Δ House
Kingman 33 Bennoch Street
Portland Σ X House

UNIVERSITY OF MAINE

Chow, Tsui Chi, Ch. Eng.	<i>Chekiang, China</i>	103 H. H. Hall
Clark, Charles Bartlett, Ee.	<i>North New Portland</i>	
Collins, Samuel Wilson, Ag.		Φ H K House
Cook, Raymond John, Es.	<i>Caribou</i>	Φ K E House
Corey, Charles Truman, Gm.	<i>Worcester, Mass.</i>	Θ X House
Cornforth, Robert Gardner, Me.	<i>Portland</i>	Φ H K House
Craig, Ira Caswell, Ee.	<i>Cooper</i>	206 H. H. Hall
Cross, Hugo Silas, Es.	<i>Millinocket</i>	201 H. H. Hall
Curran, Anne Genevieve, Eh.	<i>Guilford</i>	Φ Γ Δ House
Danforth, Earle Herrick, Ht.	<i>Old Town</i>	Old Town
Darrah, John Clarke Flagg, Ch. Eng.	<i>Bangor</i>	Φ H K House
Davis, Jasper Alden Worcester, Ce.	<i>Richmond</i>	Λ X A House
Davis, Thomas, Dh.	<i>Beverly, Mass.</i>	Σ X House
Day, Frank Conant, Ph.	<i>Veazie R. F. D. #7, Bangor</i>	
Denison, Clifford Dawes, Ht.	<i>Lewiston</i>	11 Pond Street
Dennis, Eleanor Bessie, Gm.	<i>Harrison</i>	K Σ House
Dole, Howard Noyes, Ch. Eng.	<i>Bangor</i>	186 Essex Street, Bangor
Donovan, Frank Edward, Ed.	<i>Haverhill, Mass.</i>	Θ X House
Dow, Mildred May, Eh.	<i>Turner's Falls, Mass.</i>	Θ X House
Duncan, Cony Alexander, Ch.	<i>So. Portland</i>	Mt. Vernon House
Eastman, Doris Burkett, He.	<i>Augusta</i>	Σ A E House
Ellsworth, William Clarence, Ee.	<i>Warren</i>	Balentine Hall
Epstein, Anna Pauline, Gm.	<i>Farmington</i>	411 H. H. Hall
Farnum, Philip Talbot, Ee.	<i>Bangor</i>	303 Essex Street, Bangor
Farr, Kenneth Randall, Ch. Eng.	<i>East Wilton</i>	409 H. H. Hall
Faulkner, George Armand, Fy.	<i>Oakland</i>	A T Ω House
Ferren, Earle Leslie, Bl.	<i>South Hanson, Mass.</i>	K Σ House
Files, Charles Harper, Ch.	<i>East Corinth</i>	Δ X A House
Garland, Ernest Leonard, Ee.	<i>Portland</i>	Φ K Σ House
Gooch, Marjorie Eunice, He.	<i>Old Town</i>	Old Town
Goodwin, John Elmer, Ch. Eng.	<i>Taunton, Mass.</i>	Balentine Hall
Googins, Richard Lucian, Me.	<i>Pittsfield</i>	Φ Γ Δ House
Haley, Blanche Lillian, He.	<i>Biddeford</i>	403 H. H. Hall
Hall, Ella May, He.	<i>South Brewer</i>	Mt. Vernon House
Hansen, Milton Christopher, Me.	<i>Brewer</i>	Mt. Vernon House
Hanson, Ivan Stevens, Me.	<i>Vernon, Conn.</i>	36 Grove Street
	<i>Winter Harbor</i>	
		80 North Main Street
Harmon, Perley Francis, Ag.	<i>Caribou</i>	404 H. H. Hall

JUNIORS

Harthorn, Marion Louise, Fr.	<i>Milford</i>	Balentine Hall
Haskins, Elwina Lewis, He.	<i>Saco</i>	Balentine Hall
Hathaway, Lester Walton, Ce.	<i>Bryant's Pond</i>	311 Oak Hall
Hitchings, Kathryn Estella, Sp.	<i>Caribou</i>	Balentine Hall
Holt, Stanley Norris, Ce.	<i>Dorchester, Mass.</i>	202 Oak Hall
Hopkins, Adele Cecilia, Fr.	<i>Old Town</i>	Old Town
Hopkins, Ray Clifford, Ee.	<i>Camden</i>	A T Ω House
Hurley, Alice Mary, Fr.	<i>Frankfort</i>	Old Town
Johonnett, Helen Rowe, Hy.	<i>Pittsfield</i>	Balentine Hall
Jones, Samuel Everett, Ee.	<i>Augusta</i>	107 H. H. Hall
Jordan, Ruth, Fr.	<i>Old Town</i>	Old Town
Judkins, Eshburn Oscar, Me.	<i>Upton</i>	201 Oak Hall
Kelley, Edward Henry, Me.	<i>Bangor</i>	Θ X House
Kendall, Ralph Miles, Ee.	<i>Biddeford</i>	Σ A E House
Larrabee, Clifford Prentiss, Ch. Eng.	<i>Old Town</i>	Old Town
Lawry, Emerson Chase, Ch. Eng.	<i>Fairfield</i>	B Θ Π House
Little, Nellie Ursula, Fr.	<i>Portland</i>	Mt. Vernon House
Lloyd, Katherine Marie, Eh.	<i>Brewer</i>	Brewer
Luce, Ralph Trueman, Me.	<i>Farmington</i>	410 H. H. Hall
Lurvey, Preston Eugene, Ch.	<i>Island Falls</i>	Σ A E House
MacDonnell, Reginald Hugh, Ch.	<i>Shirley, Mass.</i>	88 Main Street
Mansur, Pauline, Eh.	<i>Bangor</i>	Mt. Vernon House
Merrow, Lawrence Earle, Ee.	<i>Saco</i>	A T Ω House
Mitchell, Arthur Raymond, Ht.	<i>Sabattus</i>	36 Grove Street
Mitchell, Myron Atwood, Ee.	<i>South Berwick</i>	Θ X House
Moore, Millard George, Ch. Eng.	<i>Old Town</i>	Φ Γ Δ House
Morris, Paul Austin, Es.	<i>Old Town</i>	321 H. H. Hall
Niles, Charles Fernald, Ce.	<i>Rumford</i>	302 Oak Hall
Northrup, Christine Adelia, Lt.	<i>Palermo</i>	Balentine Hall
Noyes, Kenneth Bradford, Me.	<i>Orono</i>	Forest Avenue
Parsons, Earle Odber, Ee.	<i>Patten</i>	65 Park Street
Petersen, Marie Handseina, Ped.	<i>Portland</i>	Mt. Vernon House
Phillips, Ray Eugene, Ed.	<i>Newport</i>	Old Town
Pierce, Harold Merle, Es.	<i>Norridgewock</i>	Φ H K House
Piper, Dorothy Eva, Gm.	<i>Orono</i>	53 Main Street
Plummer, Norman Dyer, Ce.	<i>Dorchester, Mass.</i>	Φ Γ Δ House
Poor, Charles Montgomery, Ce.	<i>Andover</i>	402 H. H. Hall
Pratt, Fannie Louise, He.	<i>North New Portland</i>	Balentine Hall

UNIVERSITY OF MAINE

Prince, Jessie May, Eh.	<i>Yarmouth</i>	Mt. Vernon House
Pulsifer, James Hayes, Ht.	<i>Auburn</i>	Σ X House
Riva, Robert Arthur, Ee.	<i>Berlin, N. H.</i>	Σ X House
Robbins, Hamlyn Nelson, An.	<i>So. Portland</i>	Σ X House
Rose, Hester Miles, Eh.	<i>Brooks</i>	Mt. Vernon House
Rowe, Allen Bedford, Bl.	<i>Portland</i>	Φ H K House
Sawyer, Ethel Beatrice, Fr.	<i>So. Portland</i>	Balentine Hall
Schweitzer, Louis, Ch. Eng.	<i>Brooklyn, N. Y.</i>	304 H. H. Hall
Scott, Edith May, Gm.	<i>Wolfeboro, N. H.</i>	Balentine Hall
Scott, Ethel Lue, Gm.	<i>Wolfeboro, N. H.</i>	Balentine Hall
Segal, Abraham, Bl.	<i>Lewiston</i>	311 H. H. Hall
Simms, Henry Swain, Ch.	<i>Gorham</i>	Φ Γ Δ House
Sinnett, Ralph Vernon, Ch.	<i>Brewer</i>	Brewer
Smallidge, Orman Samuel, Me.	<i>Northeast Harbor</i>	36 Grove Street
Smith, Faye, Gm.	<i>Machias</i>	Mt. Vernon House
Spear, Estelle Paulina, Ht.	<i>South Portland</i>	Balentine Hall
Steadman, Donald Melville, Hy.	<i>Bridgton</i>	Stillwater
Stewart, Clyde Wentworth, Ch. Eng.	<i>Saco</i>	Δ T Ω House
Stoddard, Edgar Addington, Ch.	<i>Portland</i>	Δ X A House
Stubbs, Marian Esther, He.	<i>Bucksport</i>	Mt. Vernon House
Sturgis, Alfred Chamberlain, An.	<i>Auburn</i>	Σ N House
Swicker, Lester Clayton, Ee.	<i>Townsend, Mass.</i>	Δ X A House
Taylor, Enid Dorothy, Hy.	<i>North Sullivan</i>	Balentine Hall
Tibbetts, Louis Elmore, Ht.	<i>Lyman</i>	10 Park Street
Tierney, Arthur Joseph, Me.	<i>Westfield, Mass.</i>	Σ A Σ House
Tozier, Alton Warren, Me.	<i>Litchfield</i>	107 Oak Hall
Tracy, Frank Alton, Ee.	<i>Millbridge</i>	Park Street
True, Nathan Frank, Ch.	<i>Freeport</i>	Φ Γ Δ House
Turgeon, Henry Wallace, Ch.	<i>Auburn</i>	B Θ Π House
Upham, Warren Pratt, Fy.	<i>Orono</i>	Δ T Ω House
Wade, Elmer Joseph, Ee.	<i>Richmond</i>	College Street
Wallingford, Vernon Howard, Ch. Eng.	<i>Auburn</i>	Φ H K House
Webber, Paul Franklin, Ht.	<i>Kennebunk</i>	Δ X A House
Webster, Fred Lot, Dh.	<i>Farmington</i>	410 H. H. Hall
Weisman, Samuel, Ch. Eng.	<i>Portland</i>	Φ E Π House
Wellington, Linwood Wiley, Ch.	<i>Caribou</i>	Φ K Σ House
Whalen, Oscar Livermore, Es.	<i>Eastport</i>	Δ T Δ House

SOPHOMORES

Wheeler, Ella Adams, Eh.
 Whitehouse, Ralph Murch, Bl.
 Wight, Willard, Es.
 Wilkins, Ralph Allen, Ch. Eng.
 Williams, Randall Vaughan, Dh.
 Winslow, Willis Stone, Ce.
 Winter, Clifford Maurice, Ee.
 Wood, Ralph Harold, Ee.
 Young, Kenneth Thwing, Bl.
 Ziegler, Charles Melvin, An.

Bangor Mt. Vernon House
Fort Fairfield Σ X House
Berlin, N. H. Σ N House
Beverly, Mass. 88 Main Street
Lisbon Falls 107 Oak Hall
Waldoboro 210 H. H. Hall
Kingfield Δ T Δ House
Togus K Σ House
Arlington, Mass. Σ X House
Brownville Junction
 B Θ Π House

SOPHOMORES

Abramson, Lewis, Es.
 Adams, James Campbell, Me.
 Anderson, William Henry, Ch. Eng.
 Averill, Walter Boardman, Ch. Eng.
 Avery, Willard Crissey, Ce.
 Bannister, Leslie, Ce.
 Barber, Roscoe Hall, Ee.
 Barker, Iva Viola, He.
 Barron, John Stekley, Fy.
 Bartlett, Frances Dorothea, He.
 Beale, Clara Helen, Fr.
 Besse, Frank Arnold, Es.
 Beverly, Verne Curtis, Ag.
 Bisbee, Mildred Tressa Wheaton, Ms.
 Boynton, Ray Maurice, Ce.
 Brown, Edward Herbert, Ag.
 Brown, Harry Carpenter, Ag.
 Bruce, Harold Lincoln, Ag.
 Bryant, Clarence Phillip, Me.
 Bussell, Dorothea Mabel, Fr.
 Bussell, Stephen Reginald, Es.
 Butler, Harry, Ch.
 Butler, Henry Russ, Ee.
 Burke, Walter Edward, Arts.

Portland Φ E Π House
Cherryfield Σ A E House
Bangor
 122 Lincoln Street, Bangor
Stillwater Stillwater
Stamford, Conn. Φ K Σ House
Cornish Φ H K House
Portland Θ X House
Auburn Old Town
Saco A T Ω House
Orono College Street
Orono 33 Peters Street
Albion A T Ω House
Bangor K Σ House
Berlin, N. H. Mt. Vernon House
Skowhegan A X A House
Bethel College Street
Bethel North Main Street
Lebanon Campus
Lincoln Φ Γ Δ House
Old Town Old Town
Old Town B Θ Π House
Bangor Φ Γ Δ House
Portland 201 H. H. Hall
Portland A T Ω House

UNIVERSITY OF MAINE

Chadbourne, Walter Whitmore, Es.	<i>Danforth</i>	Σ X House
Chandler, Florence Libby, Bl.	<i>Newcastle</i>	Balentine Hall
Chase, Olive, Lt.	<i>Bluehill</i>	Balentine Hall
Clark, Eleanor Laura, Eh.	<i>Pemaquid</i>	Balentine Hall
Clifford, Charles Fenton, Eh.	<i>Old Town</i>	Old Town
Connors, Irene White, Eh.	<i>Sullivan</i>	Balentine Hall
Cony, Roland Francis, Gm.	<i>Augusta</i>	108 H. H. Hall
Cooley, Leland Rodney, Me.	<i>Solon</i>	405 H. H. Hall
Corbin, Paul Franklin, Ch. Eng.	<i>Malden, Mass.</i>	Δ T Δ House
Coughlin, Mary Anna, Eh.	<i>Rockland</i>	207 Balentine Hall
Couri, Dewey William, Es.	<i>Portland</i>	Δ T Δ House
Courtney, Horace Sears, Ch. Eng.	<i>Boston, Mass.</i>	212 H. H. Hall
Cousins, Herbert Burnham, Es.	<i>Brewer</i>	Φ Γ Δ House
Crane, George Wilson, Ce.	<i>Foxcroft</i>	Σ N House
Crosby, Harold Dunmore, Eh.	<i>Orland</i>	Σ N House
Cross, Charlotte Geneva, Fr.	<i>Rockland</i>	Balentine Hall
Croxford, Geneva, Bl.	<i>Brewer</i>	Brewer
Currier, Stanley Morison, Ce.	<i>Brewer</i>	Φ K Σ House
Davidson, James Howard, Ce.	<i>Guilford</i>	Φ Γ Δ House
Davis, John Joseph, Ag.	<i>Veazie</i>	R. F. D. #7, Bangor
Diehl, Edwayne Philip, Es.	<i>New Britain, Conn.</i>	Δ T Δ House
Dodge, Maynard Burnham, Ag.	<i>Old Town</i>	Old Town
Douglass, Lloyd Richmond, Ee.	<i>Augusta</i>	Σ X House
Drew, Vinal Eugene, Bl.	<i>Ashland</i>	A T Ω House
Dunn, Barbara, Eh.	<i>Orono</i>	51 Bennoch Street
Dyer, Isabel Hayden, Bl.	<i>Cape Elizabeth</i>	Balentine Hall
Eaton, Frank Newell, Jr., Ag.	<i>Winterport</i>	Campus
Elliott, Priscilla Goldwaite, Lt.	<i>Guilford</i>	Mt. Vernon House
Farrar, Clarissa Palmer, Ms.	<i>Princeton</i>	Balentine Hall
Flavell, Paul Irving, Ce.	<i>Hanover, Mass.</i>	Σ N House
Fossett, Edward Carroll, Ag.	<i>Bristol</i>	88 Main Street
Foyle, Raymond Henry, Ch. Eng.	<i>East Bridgewater, Mass.</i>	Δ X A House
Frawley, Alfred Cecil, Me.	<i>Bangor</i>	Θ X House
French, Arthur Herbert, Ch. Eng.	<i>Brewer</i>	Brewer
French, Minerva Evelyn, Ps.	<i>Rumford</i>	Balentine Hall
Friend, Francis Howard, Fy.	<i>Skowhegan</i>	K Σ House
Gilman, Leona Mae, He.	<i>Woodfords</i>	Balentine Hall
Ginsberg, George Snow, Ee.	<i>Bangor</i>	25 Grove Street

SOPHOMORES

Gorden, Kathryn Elizabeth, Sp.
 Guptill, Samuel, Ms.
 Hacker, Edward Prince, Me.
 Hackett, Ruby Marie, He.

Ham, Miles Frank, Es.
 Hamm, Clifton Marshall, Es.
 Harmon, Max Carlton, Gm.
 Harriman, Alonzo Jesse, Me.
 Hodgdon, Grace Hilda, Ms.
 Hodgkins, Lawrence James, Me.
 Holbrook, Dorothy York, He.
 Holden, Edward Wight, Ag.
 Hotham, Charles Ernest, Ag.
 Howard, Frank Weston, Ee.
 Howard, Henry Young, Ee.
 Ingersoll, Dorothy Ruth, Fr.
 Ingraham, Dwight Marden, Ee.
 Jackson, M. Eleanor, He.
 Jennys, Blanche Ellen, He.
 Johnson, Helen Lindsay, He.
 Jones, Eliphalet Prentiss, Ms.
 Kenniston, Luther Edward, Es.
 King, Corinne Mary, Fr.
 Krinsky, Silas Jack, Bl.
 Lambert, Donald Greene, Me.
 Landers, Carleton Ames, Es.
 Laughlin, Donald Stuart, Me.
 Leary, Philip John, Ce.
 LeGrow, Carl Augustus, Ag.
 Libby, Lawrence Packard, Ag.
 Lingley, Alfred Beverly, Ch. Eng.
 Littlefield, Doris, Gm.
 MacLeod, Florence Evelyn, Fr.
 March, Lindsay Jackson, Es.
 Marden, Allen Harriman, Ee.
 Marshall, Leon Otis, Ag.
 McCabe, John Francis, Ce.
 McCann, John Harding, Me.

Livermore Falls Balentine Hall
Topsham 212 H. H. Hall
Brunswick Φ Η Κ House
New Vineyard Mt. Vernon House
Thomaston Φ Κ Σ House
Brooks 3 Middle Street
Buxton 203 Oak Hall
Bath Σ Α Ε House
East Boothby Balentine Hall
West Harpswell 404 H. H. Hall
Rockland Balentine Hall
Livermore Φ Κ Σ House
Patten Κ Σ House
Dexter 301 H. H. Hall
Winslow Κ Σ House
Orono Balentine Hall
Bangor 78 Grant Street, Bangor
Everett, Mass. Balentine Hall
Belfast Balentine Hall
Brownville Balentine Hall
East Boothbay Φ Η Κ House
Amherst 3 Middle Street
Orono Summer Street
York Beach Φ Ε Η House
Readfield Depot Θ Χ House
Easton Θ Χ House
Portland Σ Χ House
East Lynn, Mass. Α Τ Ω House
Portland Θ Χ House
Portland Β Θ Η House
Portland Σ Χ House
Stratham, N. H. Balentine Hall
Old Town Old Town
Old Town 208 H. H. Hall
Wollaston, Mass. 88 Main Street
Topsham Campus
Worcester, Mass. Δ Τ Δ House
Bangor 74 Birch Street, Bangor

UNIVERSITY OF MAINE

McCrystle, Kathleen Emily, Ms.	Berlin, N. H.	Mt. Vernon House
McFarland, Ella Johnston, Eh.	New Harbor	Balentine Hall
McGouldrick, Philip Clare, Ch. Eng.	Augusta	University Inn
McManus, Edward Leo, Ee.	Bangor	Θ X House
Merrill, Doris Pauline, Eh.	Bluehill	Balentine Hall
Merrill, Marion Lees, Eh.	Gray	178 Main Street
Merry, Matthew Henry, Ce.	Vineyard Haven	35 Park Street
Merry, Silas Everett, Ee.	Vineyard Haven	35 Park Street
Mitchell, Walter James, Me.	Seymour, Conn.	408 H. H. Hall
Ober, Ernest Deering, Ag.	Atkinson	302 H. H. Hall
Orcutt, Leon Monroe, Ed.	Gouldsboro	3 Middle Street
O'Rourke, Lawrence Albert, Ch. Eng.	Saco	26 Grove Street
Packard, David Carroll, Ag.	Marion, Mass.	Σ Δ E House
Paganucci, Romeo Joe, Ch. Eng.	Waterville	K Σ House
Page, Lena Beatrice, He.	Bangor	66 Ohio Street, Bangor
Palmer, Beatrice Chase, Eh.	Bangor	14 Garland Street, Bangor
Parker, Harold Gordon, Es.	Dover	Φ Γ Δ House
Parsons, John Hamilton, Es.	Franklin Park, Mass.	Δ T Δ House
Peabody, Gertrude Devitt, He.	Princeton	Balentine Hall
Pelletier, Henry Joseph, Ce.	St. David	112 H. H. Hall
Porter, Wesley Fletcher, Ag.	Patten.	K Σ House
Power, Percy Allen, Ce.	Lincoln	Φ K Σ House
Prince, Rufus, Ce.	Turner	412 H. H. Hall
Pulsifer, Mary Augusta, He.	Auburn	Balentine Hall
Richardson, Flavia Lucile, Ms.	Old Town	Old Town
Rideout, Elmer William, Ch.	Bucksport	R. F. D. #7, Bangor
Riley, Edwin Alden, Ch. Eng.	Livermore Falls	Σ N House
Ring, Arthur Andrew, Me.	Orono	3 Summer Street
Roberts, Everett Louis, Ee.	Bangor	
Robinson, Arthur James, Me.		16 Highland Ave., Bangor
Robinson, Joseph Sidney, Ch. Eng.	Bangor	463 Main Street, Bangor
Rosenthal, Samuel Charles, Ch. Eng.	Houlton.	Φ K Σ House
Rossiter, Sherman, Es.	Portland	Φ E Π House
Rumill, Edna Lora, Eh.	Worcester, Mass.	Φ Γ Δ House
Segal, Israel, Ch.	Orono	81 Mill Street
Shoemaker, Wilbur Cartmell, Ee.	Lewiston	311 H. H. Hall
	Derby	Θ X House

SOPHOMORES

Smith, Francis Earl, Ag.

Snow, Eveline Foster, He.

Snow, Kathleen May, Eh.

Stearns, Robert Sylvester, Me.

Stetson, Dorothea Hayward, Sp.

Stevens, Maurice Hoyt, Me.

Stevens, Theodore Moulton, Bl.

Stevens, Wingate Irving, Fy.

Stodder, Russell Henry, Ag.

Stone, Fred Clinton, Ms.

Sullivan, Alphonso Denis, Ch. Eng.

Thomas, Daniel Joseph, Es.

Northampton, Mass.

Δ T Δ House

Rockland Balentine Hall

Rockland Balentine Hall

Wayland, Mass. Φ K Σ House

Houlton Balentine Hall

Presque Isle Φ H K House

Portland 310 Oak Hall

Portland 310 Oak Hall

Westport B Θ Π House

Cornish Φ H K House

Orono Main Street

Turner's Falls, Mass.

North Main Street

Gardiner B Θ Π House

Andover 402 H. H. Hall

Orono Main Street

Portland Σ X House

Bangor K Σ House

Winter Harbor Σ A E House

North New Portland

Balentine Hall

Litchfield 111 H. H. Hall

Mapleton Θ X House

Topsham Φ H K House

Egypt 110 H. H. Hall

Livermore Falls Σ N House

Woodfords B Θ Π House

Thorndike Σ X House

Bath 404 Oak Hall

Atkinson Δ X A House

Milo Σ N House

Howland Balentine Hall

Bangor 32 Fern Street, Bangor

Orono 72 Main Street

Ellsworth Falls K Σ House

Orono 8 Juniper Street

Houlton Φ K Σ House

Thomaston Balentine Hall

Thompson, Newton Bartlett, Ce.

Thurston, Lester Ralph, Ee.

Tinker, Herbert Dunbar, Ag.

Tolman, Walter Sangster, Ch. Eng.

Torsleff, Herbert St. John, Ag.

Tracy, Earl Bedford, Es.

Tripp, Grace Gertrude, Gm.

True, Edward Milton, Ce.

Tuck, Alonzo Henry, Ag.

Turner, Erwin Sibley, Me.

Urann, Arthur Reed, Ee.

Walker, Stuart Frederick, Es.

Waterman, Burleigh Rumery, Ce.

Weed, George Wright, Ch. Eng.

Weinblatt, Robert, Es.

Wellington, William Herbert, Fy.

West, Frederic Roland, Me.

Weymouth, Ava Marie, Bl.

Whalen, Henry Edward, Bl.

Whitcomb, Robert Campbell, Me.

Whitcomb, Ruel Whitney, Es.

White, Helen Patricia, Eh.

Whiteside, Frederick William, Ee.

Whitney, Bernice Marion, He.

UNIVERSITY OF MAINE

Whitney, Sumner Prince, Me.	<i>Friendship</i>	Φ K Σ House
Williams, Doris Elaine, Sp.	<i>Vinalhaven</i>	Balentine Hall
Wiseman, Robert James, Jr., Bl.	<i>Lewiston</i>	104 H. H. Hall
Woodcock, Raymond Frank, Me.	<i>Wilton</i>	Φ H K House
Woodman, Roger French, Fy.	<i>Plymouth, N. H.</i>	A T Ω House
Worth, Harold Hinckley, Me.	<i>Bangor</i>	R. F. D. #4, Bangor
Wray, Ruth Arline, Lt.	<i>Brewer</i>	Brewer

FRESHMEN

Adams, Andrew, Ch. Eng.	<i>Portland</i>	33 Bennoch Street
Anderson, Ida Mae, Arts	<i>Patten</i>	Balentine Hall
Armstrong, Paul Shattuck, Ch.	<i>Malden, Mass.</i>	209 Oak Hall
Auber, Ralph Emery, Ee.	<i>Houlton</i>	K Σ House
Austin, Chester Jordan, Ee.	<i>Greene</i>	308 Oak Hall
Bagley, Harold Herbert, Ag.	<i>Presque Isle</i>	Θ X House
Bailey, Philip Raymond, Ce.	<i>Foxcroft</i>	Σ N House
Baird, Carl Alfred, Ag.	<i>Hartland</i>	
	Ayerdale Farm, Bangor	
Baker, Charles Hall, Eng.	<i>Portland</i>	B Θ Π House
Barbeau, Joseph Wilfred, Ch. Eng.	<i>Anson</i>	193 Main Street
Barry, William Foster, Ch.	<i>Portland</i>	B Θ Π House
Barton, Frank Eugene, Arts	<i>Rockport, Mass.</i>	Σ A E House
Bayley, Wilfred Donnell, Me.	<i>Wells</i>	409 H. H. Hall
Beale, Frank Swan, Me.	<i>Eastport</i>	204 H. H. Hall
Bean, Achsa Mabel, Arts	<i>Detroit</i>	Balentine Hall
Beckwith, John Andrews, Ch. Eng.	<i>Saco</i>	36 Grove Street
Bedard, Albert Joseph, Eng.	<i>Rumford</i>	310 H. H. Hall
Beeaker, Stephen William, Eng.	<i>Rumford</i>	310 H. H. Hall
Berry, Alden Wright, Ch.	<i>Stamford, Conn.</i>	Φ K Σ House
Berry, Perley Lee, Ee.	<i>Rumford</i>	412 H. H. Hall
Bike, John Joseph, Ch.	<i>Westfield, Mass.</i>	Σ A E House
Blackwell, Perry Lynn, Ee.	<i>Madison</i>	109 Oak Hall
Blake, William Laurence, Arts	<i>Houlton</i>	Σ X House
Blethen, Harold Andy, Ee.	<i>Bangor</i>	307 Oak Hall
Blethen, Margaret, Arts	<i>Foxcroft</i>	Balentine Hall
Blodget, George Laurence, Fy.	<i>Bucksport</i>	410 H. H. Hall
Bornstein, Bernard, Ch. Eng.	<i>Deering</i>	Φ E Π House
Bowen, Rachel Leighton, He.	<i>Bangor</i>	Mt. Vernon House

FRESHMEN

Bowley, Edward James, Ce.
 Bradley, Temple Ayer, Ce.
 Bragg, Conrad Rockwood, Ce.
 Bragg, Marion Katharyn, Arts
 Brewster, Gordon Ernest, Me.
 Brown, Carlton Eugene, Ag.
 Brown, Louis Milton, Arts
 Buck, Austin Saunders, Ch.
 Burnham, Ralph Saunders, Ce.
 Burns, Alfred Sawyer, Arts
 Burns, Paul Sheridan, Ch. Eng.
 Burrows, Jerome Clement, Arts
 Buzzell, Frederick Gilmore, Arts
 Campbell, Rena, He.
 Campbell, Stanley Willey, Ch. Eng.
 Carey, Henry Thomas, Me.
 Carlin, James Edward, Ch. Eng.

Carter, Charles Pembroke, Arts
 Carter, Earl Frank, Ag.
 Cary, Lester King, Arts
 Castle, Roger Clapp, Ee.
 Chaplin, Joseph Benjamin, Ag.
 Chapman, Arthur Raymond, Eng.

Charles, John Dexter, Ch.
 Christianson, Elmer Emmons, Arts
 Clark, Ruth Elizabeth, Arts
 Clisby, Daniel Kelley, Fy.
 Cohen, Robert, Ch. Eng.
 Cole, Frederic Leslie, Arts
 Conley, John Benedict, Arts
 Conners, Robert Hutchings, Ch. Eng.
 Cooper, Eugene Smith, Ee.
 Copeland, Esther Mae, He.
 Cornell, Laurence Merritt, Arts
 Corson, Merton Clarendon, Me.
 Costello, Coleman Joseph, Ce.
 Coté, Joseph Theophilus, Arts

Sanford Σ A E House
Gloucester, Mass. Σ A E House
Augusta 205 H. H. Hall
Bangor 32 College Street
Ogunquit 209 H. H. Hall
Gloucester, Mass. Δ T Δ House
Winthrop 103 Oak Hall
Orland B Θ Π House
Gloucester, Mass. Σ A E House
Fort Fairfield Φ Γ Δ House
Houlton Φ K Σ House
Rockland K Σ House
Old Town K Σ House
Sabattus Balentine Hall
Cherryfield Σ A E House
Portland A T Ω House
Bangor

345 Hancock Street, Bangor
Belfast 111 H. H. Hall
Bangor 52 Wiley Street, Bangor
Fort Fairfield Φ Γ Δ House
Plainville, Conn. Δ T Δ House
Cornish Φ H K House
Rumford

82 Forest Avenue, Bangor
Mechanic Falls 36 Grove Street
Portland A T Ω House
Auburn Mt. Vernon House
Wiscasset Δ T Δ House
Somerset, Mass. Φ E Π House
North Brooklin Σ N House
Portland A T Ω House
Bar Harbor 301 H. H. Hall
Augusta Φ K Σ House
Brewer Mt. Vernon House
Stoughton, Mass. 109 H. H. Hall
Bridgton Stillwater
Portland 109 H. H. Hall
Old Town K Σ House

UNIVERSITY OF MAINE

Courtney, Roger Davis, Ee.
 Craig, Ivan Lester, Ce.
 Crandall, Horace Cushman, Ce.
 Crooker, Katharine Hope, He.
 Crosby, Ernest Davis, Ch. Eng.
 Croteau, Antonio Livi, Me.
 Crowley, Francis, Arts

 Curran, Helen Frances, Arts
 Curran, Raymond Joseph, Me.
 Cushman, George Mason, Es.
 Davenport, Bruce Ira, Ch. Eng.
 Davis, Carl Harlow, Ee.
 Davis, Harold Nathan, Ag.
 Deering, Edith Idella, Arts
 Deering, Howard Alfred, Me.
 Deering, Lawrence Ezekiel, Ee.
 DeRocher, James Edward, Ch.
 Doherty, Henry Grant, Me.
 Donnelly, James Patrick, Ee.
 Dow, Robert Wilbur, Fy.
 Dunning, Ella Frances, Arts
 Eames, Butler Matthews, Ee.
 Eastman, Madeleine Gladys, Arts
 Ellis, Herbert Clements, Me.
 Ellis, Frank Brown, Ee.
 Emery, Orville Morton, Arts
 Evirs, Howard Wesley, Ee.
 Fabian, Marvel, Eh.
 Farnsworth, Kenneth Clyde, Arts
 Fenlason, Philip Greydon, Arts
 Ferguson, George Haines, Ce.
 Flanders, Walter Louis, Ee.
 Flint, Erlon Webster, Ee.
 Foley, Francis Lawton, Ag.
 Fraser, Simon Chandler, Arts
 French, Gardner, Fy.

<i>Boston, Mass.</i>	212 H. H. Hall
<i>Caribou</i>	Θ X House
<i>Malden, Mass.</i>	Σ X House
<i>Monson</i>	Balentine Hall
<i>Lynn, Mass.</i>	Φ Γ Δ House
<i>Phillips</i>	3 Middle Street
<i>Bangor</i>	
	15 Forest Avenue, Bangor
<i>Old Town</i>	Old Town
<i>Bangor</i>	171 Essex Street, Bangor
<i>Portland</i>	Φ H K House
<i>Phillips</i>	Δ X Δ House
<i>Ocean Park</i>	36 Grove Street
<i>China</i>	Ayerdale Farm, Bangor
<i>Hollis Center</i>	Balentine Hall
<i>Bath</i>	Σ A E House
<i>Hollis Center</i>	101 Oak Hall
<i>East Orland</i>	Θ X House
<i>Scituate, Mass.</i>	Θ X House
<i>Arlington, Mass.</i>	55 Park Street
<i>Biddeford</i>	36 Grove Street
<i>Topsham</i>	Balentine Hall
<i>Portland</i>	Φ H K House
<i>Old Town</i>	Old Town
<i>Brooks</i>	Φ H K House
<i>Portland</i>	Φ H K House
<i>Bar Harbor</i>	Σ A E House
<i>Norway</i>	202 H. H. Hall
<i>Milo</i>	Balentine Hall
<i>Islesford</i>	204 H. H. Hall
<i>Milltown</i>	302 Oak Hall
<i>Millinocket</i>	201 H. H. Hall
<i>Dover, N. H.</i>	Θ X House
<i>Orono</i>	Mill Street
<i>Bar Harbor</i>	Σ X House
<i>Easton</i>	Σ N House
<i>Bangor</i>	
	317 Union Street, Bangor

FRESHMEN

Frey, Edward James, Ch.

Fuller, Maude Ross, Arts

Gannon, Lewis Astle, Ch.

Gaudreau, Armand Theophane, Ee.

Getchell, Angela Elizabeth, He.

Gillen, James Francis, Arts

Gilpatrick, Julia Thompson, Arts

Ginsberg, Simon, Ee.

Gordon, John Harry, Me.

Gran, John Edward, Ch. Eng.

Grant, Earl Samuel, Arts

Gray, Beulah Grace, He.

Greenleaf, Harry Lowell, Me.

Gregory, Augustus Philip, Ch. Eng.

Gribben, Vinton Earle, Ch. Eng.

Hall, Sherman Barrett, Ce.

Hamilton, Stanley Weston, Fy.

Hamm, Carol May, Arts

Hammond, Robert Jardine, Arts

Hanington, Dorothy Lyman, He.

Harden, Anna Sophia, Arts

Harriman, Richard Sherwood, Ch.
Eng.

Harris, Charles Edward, Pm.

Hart, Dorothy Endicott, Arts

Haskins, Edmund, Ag.

Hatch, Walter Edward, Arts

Hathorn, Donald Harold, Eng.

Hawkes, Wyman Eveleth, Ag.

Hegarty, Richard Paul, Ch.

Heistad, Erling, Me.

Henderson, Harry Elmont, Arts

Hersey, Lilla Clarke, Arts

Hersom, Arthur Syphus, Arts

Hope, Eric Stiles, Me.

Howard, Percy Wilmer, Ch. Eng.

Bangor

179 Grove Street, Bangor

Camden Balentine Hall

Albion A T Ω House

Lewiston Campus

Orono 50 Park Street

Bangor B Θ Π House

Northeast Harbor Balentine Hall

Bangor 25 Grove Street

Bingham Φ K Σ House

West Wareham, Mass.

205 Oak Hall

Bangor 492 Main Street, Bangor

Bangor 15 Broadway, Bangor

Monmouth 306 Oak Hall

Fairfield Σ N House

Portland B Θ Π House

Camden Park Street

Kearsarge, N. H. 101 H. H. Hall

Bangor Balentine Hall

Hartland, N. B. 308 Oak Hall

Calais Balentine Hall

South Brewer South Brewer

Rumford 310 H. H. Hall

Bar Harbor Σ A E House

Essex, Mass. Balentine Hall

Saco 12 Mill Street

North Berwick 203 H. H. Hall

Bangor K Σ House

South Windham College Street

Somerville, Mass. 306 Oak Hall

Camden Park Street

Hartland 209 H. H. Hall

Bangor

11 Graham Avenue, Bangor

Blaine K Σ House

Newport 306 H. H. Hall

Bangor K Σ House

UNIVERSITY OF MAINE

Hunt, Lloyd Wesley, Ag.	<i>Gardiner</i>	212 Oak Hall
Jackson, Harry Laton, Ee.	<i>Bath</i>	Φ Γ Δ House
Jocelyn, Reginald Melvin, Ee.	<i>Bucksport</i>	Σ Α Ε House
Johnson, Gordon Woodbury, Ag.	<i>Westbrook</i>	R. F. D. #7, Bangor
Johnson, Leon Howard, Arts	<i>Portland</i>	Park Street
Johnson, Stanley Jordan, Ch. Eng.	<i>Bangor</i>	307 Oak Hall
Jones, Alice Ward, Arts	<i>Carmel</i>	Balentine Hall
Jones, Bryant Emerson, Fy.	<i>Bangor</i>	Α Τ Ω House
Jones, Cecil Roland, Eng.	<i>Waterville</i>	312 H. H. Hall
Jones, Hollis Willard, Me.	<i>Brooks</i>	202 H. H. Hall
Jones, Nellie Marie, He.	<i>Unity</i>	Balentine Hall
Jones, Stanley Cochrane, Ch.	<i>Baldwinville, Mass.</i>	
		303 Oak Hall
Kavanah, Elsie Dolores, Arts	<i>Lawrence, Mass.</i>	Balentine Hall
Keating, Anna Josephine, Arts	<i>Camden</i>	Balentine Hall
Kelleher, James Wilbur, Arts	<i>Orono</i>	77 Mill Street
Kelleher, Ralph Bartholomew, Arts	<i>Orono</i>	77 Mill Street
Kelley, Robert Emmet, Ce.	<i>Willimantic, Conn.</i>	
		7 Pleasant Street
Kelly, Harold Joseph, Arts	<i>Orono</i>	48 Mill Street
Kelly, Linwood John, Arts	<i>Orono</i>	Island Avenue
Kemler, Joseph Aaron, Arts	<i>Revere, Mass.</i>	312 Oak Hall
Kennison, Ralph Gregory, Ee.	<i>Madison</i>	Φ Η Κ House
Kilby, Lucy Helen, Ag.	<i>Eastport</i>	Balentine Hall
Kinney, Genevieve Irene, He.	<i>Bangor</i>	
		170 Parkview Avenue, Bangor
Klubock, Benjamin, Ch. Eng.	<i>Lawrence, Mass.</i>	Φ Ε ΙΙ House
Kritter, Emilie Angelina, Arts	<i>Bradford, Mass.</i>	
		107 Balentine Hall
Kushelevitz, Alexander, Ch. Eng.	<i>Lewiston</i>	404 Oak Hall
Lancaster, Ralph Bradford, Eng.	<i>Madison</i>	Φ Η Κ House
Lang, Nell Worman, Arts	<i>Orono</i>	University Inn
Law, Frank Davis, Me.	<i>Foxcroft</i>	Orono
Lawry, Ormonde, Me.	<i>Fairfield</i>	Β Θ ΙΙ House
Leach, Dorris Lillian, Arts	<i>Penobscot</i>	Balentine Hall
Leighton, Bradford Elias, Ce.	<i>Halls Mills</i>	110 Oak Hall
Leonard, Etta Louise, Arts	<i>Bangor</i>	Balentine Hall
Lester, Orlando Atwood, Ag.	<i>Bridgton</i>	Stillwater
Levine, Flora Stella, Arts	<i>Westfield, Mass.</i>	
		322 French Street, Bangor

FRESHMEN

Lewis, Charles Berry, Ce.	<i>Springfield</i>	202 H. H. Hall
Libby, Carroll Winfield, Ag.	<i>Berry Mills</i>	408 Oak Hall
Libby, Millard Edward, Ch.	<i>Milford</i>	Milford
Libhart, Roland Edwin, Me.	<i>Brewer</i>	Brewer
Littlefield, Alton Thaddeus, Arts	<i>Gardiner</i>	B Θ Π House
Littlefield, Robert Lincoln, Ag.	<i>Wells</i>	410 Oak Hall
Lockhart, Hubert Winfield, Ag.	<i>Cambridge, Mass.</i>	Δ T Δ House
Longfellow, Celia Elizabeth, He.	<i>Machias</i>	Mt. Vernon House
Mace, Doris LaVerne, He.	<i>Aurora</i>	Mt. Vernon House
Mack, Edward, Ch.	<i>Portland</i>	Φ E Π House
MacSwain, Mahlon Joseph, Ch. Eng.	<i>Grand Rapids, Wis.</i>	411 Oak Hall
Malone, Gordon John, Ag.	<i>Portland</i>	Σ N House
Maxfield, Gladys Eleanor, Arts	<i>Bangor</i>	Balentine Hall
Mayberry, Jasper Earle, Arts	<i>South Windham</i>	408 Oak Hall
McCart, John Henderson, Me.	<i>Eastport</i>	412 Oak Hall
McGown, Roland Alexander, Ch. Eng.	<i>Green Lake</i>	Θ X House
McKechnie, Ishmeal, Fy.	<i>Sanford</i>	Φ H K House
Meriwether, William Douglas, Ch.	<i>Madison, Conn.</i>	53 North Main Street
Merrill, Aubrey Albert, Me.	<i>Sebec Station</i>	Orono
Miller, Albert Morrill, Arts	<i>Amesbury, Mass.</i>	Δ T Ω House
Miller, Pauline Esther, Arts	<i>Bangor</i>	Balentine Hall
Miller, Rupert Winston, Fy.	<i>Lewiston</i>	202 H. H. Hall
Mitchell, Berne Wilmer, Eng.	<i>Kingfield</i>	Φ Γ Δ House
Morrill, Florence Julia, He.	<i>Portland</i>	Balentine Hall
Moulton, Ralph Chandler, Fy.	<i>Auburn</i>	Θ X House
Mulvaney, Richard Francis, Ee.	<i>Bangor,</i>	199 Pine Street, Bangor
Murphy, Paul Edward, Arts	<i>Old Town</i>	Φ Γ Δ House
Murphy, Thomas Harold, Ce.	<i>Old Town</i>	Old Town
Murray, Thomas Arthur, Ag.	<i>Hampden Highlands</i>	Φ Γ Δ House
Murray, William Smith, Arts	<i>Hampden Highlands</i>	Φ Γ Δ House
Myers, Edwin Thomas, Me.	<i>Portland</i>	Δ T Ω House
Nadeau, Eugene Joseph, Ch. Eng.	<i>Presque Isle</i>	College Street
Newhall, George Dewey, Eng.	<i>Cumberland Mills</i>	Δ X A House
Newton, Robert Denning, Arts	<i>Kent's Hill</i>	Φ Γ Δ House

UNIVERSITY OF MAINE

Noyes, Lauriston Franklin, Ag.	East Wilton	409 H. H. Hall
Noyes, Otis, Arts	Bryan's Pond	110 Oak Hall
Oakes, Vance Elden, Me.	Rangeley	Σ N House
O'Connell, John Edward, Arts	Lewiston	Θ X House
O'Connell, John William, Ch. Eng.	Bangor	18 Birch Street, Bangor
O'Hara, Edward Thomas, Ch.	Bangor	164 Grove Street, Bangor
O'Malley, Charles Henry, Me.	Worcester, Mass.	Grove Street
Osborne, Donald Caldwell, Ee.	Fort Fairfield	Φ H K House
Packard, Ethel Frederica, He.	Camden	Mt. Vernon House
Page, Leland Albion, Me.	Bangor	66 Ohio Street, Bangor
Page, Raymond Clayton, Fy.	Orono	Middle Street
Palmer, Addison Boutelle, Ce.	Bangor	K Σ House
Parent, John Wilfrid, Arts	Van Buren	210 Oak Hall
Partridge, Clarence Leslie, Me.	North Baldwin	Old Town
Patterson, Harry Alfred, Me.	Winchester, Mass.	Σ X House
Pennell, James Kenneth, Ch. Eng.	Bangor	97 Fern Street, Bangor
Perkins, Earl Halcot, Ce.	Abbott Village	54 Pine Street
Perry, Oscar Leland, Me.	Rockland	209 H. H. Hall
Peterson, Christian William, Arts	Portland	Θ X House
Phillips, Cora Mae, Arts	Northeast Harbor	Balentine Hall
Pinkham, Seth Henry, Arts	Cape Porpoise	Θ X House
Plumer, Wesley Clark, Eng.	Woodfords	Σ X House
Pomeroy, Frederick Hutchinson, Me.	Methuen, Mass.	Σ X House
Pompeo, Nunziando, Arts	Portland	104 Oak Hall
Potter, Albert Raymond, Me.	Woodland	Θ X House
Potter, George Alva, Arts	Mystic, Conn.	Φ H K House
Pratt, Charles Laurence, Ch.	South Windham	403 Oak Hall
Pratt, Harold Edward, Ch. Eng.	Barre, Mass.	Δ T Δ House
Preble, Warren Hinckly, Ce.	Addison	Φ Γ Δ House
Priest, Conan Althado, Ee.	Solon	406 H. H. Hall
Provost, Romeo Rosario, Ch.	Lewiston	H. H. Hall
Pullen, Dexter, Me.	Bangor	86 Grove Street, Bangor
Reed, Helen Pierpont, Arts	Bangor	Balentine Hall
Reed, Lewis Hersey, Ch. Eng.	Springfield	Σ N House
Rhoda, Marion Bernice, He.	Houlton	Balentine Hall
Ricker, Milton James, Ch. Eng.	Flagstaff	Σ A E House
Ricker, Moses Carr, Ch. Eng.	Bangor	144 Maple Street, Bangor
Rusk, Ian MacNiven, Ce.	West Townsend, Mass.	Λ X A House

FRESHMEN

Ryan, Terence Cullen, Ce.	<i>Millinocket</i>	303 H. H. Hall
Salley, Florence Ulmer, Arts	<i>Bangor</i>	Balentine Hall
Sanborn, Clarence Winfred, Me.	<i>Lynn, Mass.</i>	Θ X House
Sawyer, Donald Frank, Arts	<i>Milbridge</i>	10 Park Street
Sawyer, Harold Lester, Ag.	<i>South Portland</i>	Δ T Δ House
Schonland, Richard Palmer, Me.	<i>Portland</i>	B Θ Π House
Schweitzer, William Peter, Ch. Eng.	<i>Brooklyn, N. Y.</i>	304 H. H. Hall
Scott, Harold Franklin, Ch. Eng.	<i>Orono</i>	265 Main Street
Sewall, Howard Howe, Fy.	<i>Livermore Falls</i>	Σ N House
Sheldon, Louise Upton, He.	<i>Norway</i>	Balentine Hall
Shorey, Leigh Temple, Ag.	<i>Presque Isle</i>	Θ X House
Shorey, Lena Etta, He.	<i>Thomaston</i>	Balentine Hall
Small, George Herbert, Ee.	<i>Orono</i>	27 Park Street
Small, Ruth Mildram, He.	<i>Auburn</i>	Balentine Hall
Small, Stanton Elmood, Arts	<i>Farmington</i>	Φ K Σ House
Smith, Bernice Stevens, Arts	<i>Bangor</i>	Balentine Hall
Smith, Dorothy, Arts	<i>Bangor</i>	Balentine Hall
Smith, Everett Lufkin, Eng.	<i>East Orrington</i>	Φ Γ Δ House
Smith, Hugh Clifford, Me.	<i>Bangor</i>	
	14 Kenduskeag Ave., Bangor	
Smith, John Raymond, Ch. Eng.	<i>Bridgewater</i>	306 H. H. Hall
Smith, Kenneth Griffin, Arts	<i>Bangor</i>	3 Charles Street, Bangor
Smith, Lucille Estelle, He.	<i>Brewer</i>	Balentine Hall
Smith, Pauline Chambers, Arts	<i>Houlton</i>	Balentine Hall
Snow, Edward Haskell, Ce.	<i>Bluehill</i>	Σ X House
Staples, Elliott Marsellus, Ee.	<i>Ogunquit</i>	409 H. H. Hall
Stephens, Raymond Donnell, Fy.	<i>Auburn</i>	B Θ Π House
Stewart, Katherine Dudley, Arts	<i>Bangor</i>	Mt. Vernon House
Stewart, Robert Barclay, Arts	<i>Waterville</i>	K Σ House
Stewart, Sarah Emily, Arts	<i>Cherryfield</i>	Mt. Vernon House
Stuart, Donald Wellington, Ce.	<i>Houlton</i>	Φ K Σ House
Sturgis, Perley Roy, Arts	<i>Standish</i>	Δ X A House
Sullivan, Allan Francis, Ee.	<i>Orono</i>	212 Main Street
Sullivan, Ernest John, Ce.	<i>Orono</i>	212 Main Street
Sullivan, Eugene Leo, Ee.	<i>Orono</i>	212 Main Street
Sullivan, Ruth Butler, Arts	<i>Bangor</i>	Mt. Vernon House
Swicker, Harold Benton, Arts	<i>Townsend, Mass.</i>	Δ X A House
Swift, Carroll Candy, Me.	<i>Waltham, Mass.</i>	Φ K Σ House
Tackaberry, Robert Bernard, Arts	<i>Lewiston</i>	102 H. H. Hall

UNIVERSITY OF MAINE

Tague, Blanche Paulina, He.

Tapley, Paul Dutton, Arts
 Tarbox, Errol Eugene, Fy.
 Taylor, Wilfred Avery, Ee.
 Thompson, Raymond Harris, Arts
 Thurrell, Myron Bartlett, Ee.
 Tibbetts, Harold Samuel, Arts
 Tingley, Frederick Joseph, Ag.
 Torrey, Frances Willard, He.
 Tozier, Norman Stanley, Arts
 Trafton, George Maynard, Ce.
 Trainer, Esther Ryder, Arts
 Travers, George Clifton, Ag.

Treworgy, Harold Eugene, Ce.
 Trouant, Virgil Elmer, Ee.
 Underhill, Orra Ervin, Jr., Ch.
 Varney, Allen Morelen, Ch.
 Vaughan, Frederick Ray, Ch.
 Vaughan, Kenneth Emery, Ch. Eng.
 Vining, Clyde Victor, Arts
 Wadlin, Swasey, Arts
 Wadsworth, Prudence Wood, He.
 Waite, John Philip, Arts
 Ward, Chester Albert, Ag.
 Weatherbee, Effie May, He.
 Weeks, Victoria Olive, Arts
 Wells, Vance Millard, Ch. Eng.
 Wessenger, Hester Mary, Arts
 Weymouth, Dorothy Kent, Arts
 Weymouth, Leta Alvena, Arts
 Wheeler, Maurice Putman, Eng.
 Whiting, Alice Merriam, Arts
 Whitmore, John, Fy.
 Wilder, Carroll Deane, Ag.
 Wilkins, Elwood Kempton, Eng.
 Willard, Fred Spear, Arts
 Willett, Orson Byther, Ee.

No. New Portland

Balentine Hall
 Ellsworth Σ A E House
 Sanford Σ A E House
 Wareham, Mass. 205 Oak Hall
 Woodfords Θ X House
 North Berwick 203 H. H. Hall
 Auburn B Θ Π House
 Millinocket 303 H. H. Hall
 Bucksport Balentine Hall
 Fairfield B Θ Π House
 Springvale 305 Oak Hall
 Bangor Balentine Hall
 Bangor

58 Jefferson Street, Bangor

Ellsworth Σ N House
 Augusta 10 Park Street
 Leominster, Mass. 305 Oak Hall
 Gloucester, Mass. 409 Oak Hall
 Cherryfield 212 H. H. Hall
 Brewer Brewer
 Auburn K Σ House
 Canton Φ H K House
 Skowhegan Mt. Vernon House
 Portland Φ Γ Δ House
 Hartland K Σ House
 Foxcroft Balentine Hall
 Winslow Balentine Hall
 Wilton 412 H. H. Hall
 Masardis Balentine Hall
 Brewer Brewer
 Howland Balentine Hall
 Winchendon, Mass. Orono
 East Winthrop Balentine Hall
 Bucksport Σ A E House
 Washburn Σ X House
 Caribou Φ H K House
 South Portland Σ N House
 East Corinth 36 Grove Street

COLLEGE OF LAW

Williams, Hugh Montgomery, Ch. Eng.	<i>Guilford</i>	110 H. H. Hall
Williams, Roger Leonard, Ch. Eng.	<i>Yarmouthville</i>	Φ H K House
Wilson, Howard Edmund, Ce.	<i>Belfast</i>	111 H. H. Hall
Wise, Raymond Crowell, Ag.	<i>Guilford</i>	401 H. H. Hall
Witherell, Sadie Imogene, He.	<i>Sabattus</i>	Campus
Wolfe, Donald, Ag.	<i>Cambridge, Mass.</i>	Δ T Δ House
Wonson, Philip Reed, Ag.	<i>Gloucester, Mass.</i>	Σ A E House
Wood, Carleton Pratt, Ch. Eng.	<i>Kingfield</i>	411 H. H. Hall
Wood, Charles Wesley, Ag.	<i>Belfast</i>	111 H. H. Hall
Wood, Harold Percy, Arts	<i>Winthrop</i>	103 Oak Hall
Young, Newman Harold, Arts	<i>Lewiston</i>	K Σ House

COLLEGE OF LAW

SENIORS

Cohen, Robert	<i>Bangor</i>	305 Essex Street, Bangor
Couette, Ralph Hubert	<i>Bangor</i>	72 Second Street, Bangor
Cowan, Frank Irving, A. B. Bowdoin, 1913	<i>Lisbon Falls</i>	The Colonial, Bangor
DeWolfe, James Codman	<i>Portland</i>	The Colonial, Bangor
Fitzgerald, Charles Manning Georgetown Law School	<i>Bath</i>	300 Hammond Street, Bangor
Fortier, Albert James	<i>Livermore Falls</i>	194 Union Street, Bangor
Gallagher, James Augustine	<i>Bangor</i>	34 Elm Street, Bangor
Hale, George Lester Maine	<i>Belfast</i>	300 Hammond Street, Bangor
Levin, Reuben Cornell	<i>Manchester Depot, Vt.</i>	93 Elm Street, Bangor
Levenson, George Sidney	<i>Dorchester, Mass.</i>	Φ E II House, Orono
Marcou, Napoleon Alphonse	<i>Waterville</i>	21 Sanford Street, Bangor
McGrath, William Joseph Maine	<i>Bangor</i>	22 Bowdoin Street, Bangor
Sherman, Allen, A. B. Dartmouth, 1915; Harvard Law	<i>New Bedford, Mass.</i>	8 Cedar Street, Bangor
Vancore, Dixon Frederick	<i>Colebrook, N. H.</i>	16 Sixth Street, Bangor

UNIVERSITY OF MAINE

JUNIORS

Drapeau, Eudore Alphonse, A. B.	<i>Brunswick</i>
Bowdoin, 1916	114 Sanford Street, Bangor
Jordan, John Frederick	<i>Bangor</i> 143 Grove Street, Bangor

FIRST YEAR

Hitchings, Herbert William	<i>Caribou</i> 57 Fifth Street, Bangor
Maine	
LaFleur, John Ralph, B. S.	<i>Waterville</i>
Colby, 1915	28 Second Street, Bangor
Levine, Lewis Lester, B. S.	<i>Waterville</i>
Colby, 1916	28 Second Street, Bangor
Pilot, Michael	<i>Bangor</i> 130 Essex Street, Bangor
Maine	
Skolfield, Sydney Kenneth	<i>Houlton</i> Y. M. C. A., Bangor
Bowdoin	
Wunderlich, Albert Whittier	<i>Arlington, Mass.</i>
	Σ X House, Orono

SPECIALS IN THE COLLEGE OF LAW

Blais, Frank Philip	<i>Portland</i>
	300 Hammond Street, Bangor
Decker, Ernest Raymond	<i>Bangor</i> 72 Second Street, Bangor
Middlebury	
Fowler, Charles Murray	<i>Presque Isle</i>
University of New Brunswick	84 Cedar Street, Bangor
Gorwood, George Ernest	<i>Woodland</i> Y. M. C. A., Bangor
Harris, Louis	<i>Bangor</i> Y. M. C. A., Bangor
Hurley, Charles William	<i>Ellsworth</i>
	84 Cedar Street, Bangor
Katz, Hyman	<i>Bangor</i> 183 York Street, Bangor
Loring, Fred Milton, A. B.	<i>Auburn</i>
Bates, 1910	28 Second Street, Bangor
Morris, Abraham	<i>Bangor</i> 36 Essex Street, Bangor
Redding, Harold Leslie	<i>Auburn</i> Y. M. C. A., Bangor
Sanborn, Arthur Raymond	<i>Island Falls</i>
	84 Cedar Street, Bangor

SPECIALS IN THE COLLEGES AT ORONO

Walsh, Francis Allison
St. Joseph College

Bangor 210 Essex Street, Bangor

SPECIALS IN THE COLLEGES AT ORONO

Barnes, Forrest Henry, Ee.	<i>Waterville</i>	36 Myrtle Street
Bernard, James Laurence, Jr. Ee.	<i>Portland</i>	36 Myrtle Street
Blood, Charles Virgil, Ag.	<i>Foxcroft</i>	Σ A E House
Bradeen, Leroy Stanford, Me.	<i>Dexter</i>	407 Oak Hall
Caswell, Curtis Lowe, Ch.	<i>Orono</i>	7 Pleasant Street
Chase, Willard Linwood, Ed.	<i>Orono</i>	University Inn
Dibblee, James Appleby, Fr.	<i>Orono</i>	University Inn
Hodgdon, Paul Edward, Ch.	<i>Bangor</i>	Σ X House
King, Alfred Rollins, Me.	<i>Fairfield</i>	B Θ Π House
King, Rufus Brooks, Ee.	<i>Peabody, Mass.</i>	10 Park Street
Larsen, Niels Juel, Ch. Eng.	<i>Christiana, Norway</i>	Σ X House
Lawton, Daniel Edwin, Bl.	<i>Southwest Harbor</i>	A T Ω House
Lemont, Herbert Randall, Fy.	<i>Bath</i>	Σ A E House
Lyon, Alpheus Crosby, Ce.	<i>Orono</i>	119 Bennoch Street
Marcoux, Eli Albert, Ch. Eng.	<i>Berlin, N. H.</i>	102 H. H. Hall
Matheson, Richard Malcolm, Eng.	<i>Brooklyn, N. Y.</i>	Δ T Δ House
McCann, Frances, He.	<i>Bangor</i>	135 Cedar Street, Bangor
Morris, Viola Louise, Arts	<i>Orono</i>	Pine Street
Murray, Edwin Thomas, Arts	<i>Bangor</i>	159 Parkview Avenue, Bangor
Roberts, Marguerite Copeland, Arts	<i>Dexter</i>	Balentine Hall
Scott, Harold Guy Dow, Arts	<i>Old Town</i>	Old Town
Shute, George Cameron, Arts	<i>Portland</i>	A T Ω House
Small, Elton Ellis, Ag.	<i>Buck's Harbor</i>	101 H. H. Hall
Vasconcelos, Samuel, Eh.	<i>Orono</i>	32 College Street

TWO-YEAR PHARMACY

SECOND YEAR

Barbour, Bentley Lawrence	<i>Rockland</i>	Φ K Σ House
Burgoyne, William Joseph	<i>Fort Kent</i>	112 H. H. Hall
Davis, Jacob Joseph	<i>Bangor</i>	Φ E Π House

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Emerson, Clarence Lee	<i>Brewer</i>	Brewer
Perkins, Frederic Eugene	<i>Bangor</i>	
	17 Fourth Street, Bangor	
Smargonsky, Isaac	<i>Ashland</i>	Φ E Π House

FIRST YEAR

Anderson, Ellerth William	<i>Caribou</i>	Σ X House
Cyr, Onisine Paul	<i>Van Buren</i>	210 Oak Hall
Delano, Freeland Derward	<i>Vinalhaven</i>	102 H. H. Hall
Flynn, Daniel Joseph	<i>Brewer</i>	Brewer
Folsom, Sidney Clyde	<i>Corinna</i>	101 Oak Hall
Hamblin, Wolcott Chaffee	<i>Sheridan</i>	Greatworks
Libby, Waldo Peter	<i>Brooklyn, N. Y.</i>	Σ A E House

TWO-YEAR HOME ECONOMICS

McCann, Mary Elizabeth	<i>Bangor</i>	74 Birch Street, Bangor
Pretto, Theresa Helen	<i>Bangor</i>	50 Pine Street, Bangor

SCHOOL COURSE IN AGRICULTURE

SECOND YEAR

Bridges, Henry Styles	<i>West Pembroke</i>	Campus
Day, Irving Hall	<i>Stowe</i>	23 Park Street
Johonnett, Aubrey Herman	<i>Pittsfield</i>	203 Oak Hall
Kyes, Howard Ernest	<i>North Jay</i>	109 H. H. Hall
LaPoint, Edmund Robert	<i>Orono</i>	29 Forest Avenue
Redman, Arlo Lee	<i>Belfast</i>	111 H. H. Hall
Sawyer, Charlie Alexander	<i>Thomaston</i>	Bennoch Street
Tomlinson, Bertram	<i>Philadelphia, Penna.</i>	Campus
Wallingford, John Gowell	<i>Auburn</i>	Φ H K House
Warren, Ralph Edward	<i>Lisbon Falls</i>	R. F. D. #7 Bangor
Wheeler, Ralph Jones	<i>Brewer</i>	Brewer

FIRST YEAR

Cyr, Patrick	<i>Lille</i>	Pine Street
Gifford, Frank Perry	<i>Quincy, Mass.</i>	112 H. H. Hall

SUMMER TERM

Miller, Harry Baker	<i>Solon</i>	81 Mill Street
Swett, Erwin George	<i>Hampden Highlands</i>	
		301 Oak Hall
Thomas, Charles Leslie	<i>Harrison</i>	Mill Street
Weymouth, Irving Crosby	<i>Albion</i>	A T Ω House

SUMMER TERM

Barker, Corinne Maude	<i>Bangor</i>	
Bowen, Mary Catherine	<i>Orono</i>	
Brown, Clifford	<i>Portland</i>	
Brown, Georgie Mae	<i>Farmington Falls</i>	
Brown, Leah Marion	<i>East Corinth</i>	
Browning, Neva, B. A.	<i>Orono</i>	
Maine, 1915		
Burns, Margaret Russell	<i>Bangor</i>	
Bussell, Edith Mae, Ph. B.	<i>Old Town</i>	
Maine, 1902		
Butters, Arthur Edwin, B. A.	<i>Old Town</i>	
Maine, 1916		
Callahan, Mildred Laura	<i>Island Falls</i>	
Carter, Ray Milo	<i>West Hawley, Mass.</i>	
Caswell, Curtis Lowe	<i>Orono</i>	
Cook, Berton Ellsworth, B. S.	<i>Deer Isle</i>	
Syracuse, 1914		
Connor, Henrietta Regina, B. S.	<i>Newmarket, N. H.</i>	
N. H. State, 1913		
Darrah, John Clarke Flagg	<i>Boston, Mass.</i>	
Dean, Archibald Sweetland	<i>Woodfords</i>	
Dennis, Eleanor Bessie	<i>Bangor</i>	
Derby, Pauline	<i>Bangor</i>	
Dougherty, Mary Abbie	<i>Milford</i>	
Edmunds, Charles Storer	<i>Bangor</i>	
Epstein, Anna Pauline	<i>Bangor</i>	
Feeney, Joseph Edward, B. A.	<i>Portland</i>	
Holy Cross, 1915		
Fenderson, Carl Nathan	<i>Farmington</i>	
Fenderson, Kendrick Elwell	<i>Gorham</i>	
Flannigan, Mary Isabel	<i>Orono</i>	

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Freese, Jennie Price	<i>Old Town</i>
Furbish, Helen Lincoln	<i>Brunswick</i>
Garman, Ellen Mary	<i>Bangor</i>
Giles, Jennie Agnes, B. A.	<i>Groveland, Mass.</i>
Western, Canada	
Goldsmith, Chester Hamlin, B. S.	<i>Orono</i>
Maine, 1915	
Goss, Margaret	<i>Charleston</i>
Gould, Margaret Buffum	<i>Orono</i>
Grant, Harold Cram	<i>Bangor</i>
Hawkes, John Carroll	<i>Woodfords</i>
Hawkes, Marion Hunnewell	<i>Woodfords</i>
Hickson, Eugene Francis	<i>Bangor</i>
Hines, George Harold	<i>Middletown, Conn.</i>
Horne, Ethel Rachel	<i>Wolfeboro, N. H.</i>
Howard, Henry Marshall	<i>East Andover</i>
Hurley, Alice Mary	<i>Old Town</i>
Ingalls, Arthur Dinsmore	<i>Farmington</i>
Judd, Ada May	<i>DeLand, Florida</i>
Kelley, Agnes Rose	<i>Brewer</i>
Kelley, Carl Edward, M. T.	<i>Mt. Desert</i>
Penn. Inst., 1914	
Kellogg, Thelma Louise	<i>Vanceboro</i>
King, Harold Louis	<i>Orono</i>
Leighton, Ralph Melvin	<i>Bar Harbor</i>
Lewis, James Abram, B. S.	<i>North Haven</i>
Bowdoin, 1915	
Lunt, Lucy Barton	<i>South Brewer</i>
MacIlroy, Cecil Dow	<i>Milo</i>
Merrill, Katharine Buffum	<i>Orono</i>
Mower, Clyde Fletcher	<i>Dexter</i>
Munson, Barbara Allen	<i>Orono</i>
Murphy, Catharine Hyacintha	<i>Auburn</i>
Myers, Lucille Rose	<i>Orono</i>
McCornville, Elizabeth Angeline	<i>Portland</i>
McCornville, Mary Callista	<i>Orono</i>
McGroty, James William	<i>Wallingford, Conn.</i>
Orcutt, Hollis	<i>Franklin</i>
Osler, Bertha	<i>Orono</i>

SUMMER TERM

Oyang, Jane	<i>Shanghai, China</i>
Palmer, Helen Elizabeth	<i>Orono</i>
Palmer, Pearl Lillian	<i>Orono</i>
Park, Irwin James	<i>Orono</i>
Patch, Helen Elizabeth, B. A.	<i>Bangor</i>
Mt. Holyoke, 1914	
Pearson, Fred Almore	<i>Buckfield</i>
Phillips, Ray Eugene	<i>Newport</i>
Pomeroy, Clara Vesta	<i>Island Falls</i>
Preston, Lester Ware	<i>Providence, R. I.</i>
Ring, Elizabeth	<i>Orono</i>
Robinson, Orett Forest	<i>Warren</i>
Ryder, Dorothea	<i>Orono</i>
Sawyer, Lula	<i>Brewer</i>
Schweitzer, Louis	<i>Brooklyn, N. Y.</i>
Smith, Sadie Greenaway, A. B.	<i>Ware, Mass.</i>
Oberlin, 1910	
Snow, Charles Augustus	<i>Stockton Springs</i>
Sowle, Wesley Atwood, A. B.	<i>Ellsworth</i>
Boston, 1915	
Stinchfield, Ben, A. B.	<i>Farmington Falls</i>
Boston, 1914; A. M., 1916	
St. Onge, Arthur Amos, B. A.	<i>Foxcroft</i>
Maine, 1914	
Stuart, Helen Loggie	<i>Bangor</i>
Theriault, Ora Morie	<i>Millinocket</i>
Thompson, Dorothy, B. A.	<i>Orono</i>
Maine, 1916	
Tobey, Helen White	<i>Orono</i>
Trask, Henry Alvin	<i>Southwest Harbor</i>
Violette, Genevieve Augusta	<i>Milford</i>
Webber, Elmer Harrison, B. Pd.	<i>Livermore Falls</i>
Maine, 1915	
Webster, Frances Anna	<i>Orono</i>
White, Helen Patricia	<i>Orono</i>
Whitehouse, Ralph Murch	<i>Fort Fairfield</i>
Williams, Elmer Briry	<i>Old Town</i>
Young, Mary Kathleen	<i>Milbridge</i>
Zick, Henry, Ph. D.	<i>574 St. Nicholas Avenue, New</i>
Heidelberg, 1887	<i>York City</i>

UNIVERSITY OF MAINE

General Summary

FACULTY

President	1
Professors	41
Associate Professors	13
Assistant Professors	19
Agricultural Extension Staff	24
Emergency Extension Staff	14
Instructors	25
Assistants	10
Lecturers	9
<hr/>	
Total	156
College of Agriculture	56
College of Arts and Sciences	37
Agricultural Experiment Station	19
College of Law	10
College of Technology	25
Officers common to all Colleges	9
<hr/>	
Total	156

STUDENTS

Graduate Students	9	
Seniors	99	
Juniors	131	
Sophomores	179	
Freshmen	330	
Specials	24	772
<hr/>		

GENERAL SUMMARY

College of Law, Seniors	14	
Juniors	2	
Freshmen	6	
Specials	12	34
<hr/>		
Two Year Curriculum in Pharmacy		
Second Year	6	
First Year	7	13
Two Year Course in Home Economics	2	2
(No students admitted after 1915)		
Two Year School Course in Agriculture		
Second Year	11	
First Year	6	17
Summer Term	92	
<hr/>		
Total (omitting duplicates 17)		913

CLASSIFICATION BY RESIDENCE

Maine, by counties :		
Androscoggin	51	
Aroostook	50	
Cumberland	96	
Franklin	30	
Hancock	46	
Kennebec	41	
Knox	24	
Lincoln	8	
Oxford	27	
Penobscot	257	
Piscataquis	24	
Sagadahoc	16	
Somerset	33	
Waldo	19	
Washington	30	
York	36	788
Maine	788	
Massachusetts	83	
New Hampshire	15	

UNIVERSITY OF MAINE

Connecticut	13
New York	5
Pennsylvania	1
Vermont	1
Rhode Island	1
Wisconsin	1
Florida	1
China	2
Canada	1
Norway	1
	<hr/>
	913

Men Students	685
Women Students	228
	<hr/>
	913

CLASSIFICATION BY COLLEGES

Graduate Students	9
College of Agriculture	191
College of Arts and Sciences	326
College of Law	34
College of Technology	353
	<hr/>
	913

CANDIDATES FOR DEGREES

Graduate Students	9
College of Agriculture	170
College of Arts and Sciences	259
College of Law	22
College of Technology	342

UNIVERSITY OF MAINE

The following students registered in short courses given in the College of Agriculture, January to February, 1917.

Name	Course	Home Address
E. W. Blackwell	Poultry	Waterville, Maine
L. S. Bowden	Dairying	Waterville, Maine R. F. D. 41
Ernest Colby	Poultry	Wiscasset, Maine
Flora S. Dunton	Poultry	Bangor, Maine
Karl B. Dow	Poultry	Kents Hill, Maine
Lindley S. Foss	General Agriculture	Livermore Falls, Maine R. F. D.
Jasper E. Guptill	Poultry	Berwick, Maine
F. E. Hulen	Poultry	Damariscotta, Maine
Harland B. Hussey	Dairying	Windsorville, Maine
Vaughan Jones	Horticulture	Bangor, Maine R. F. D. #7
Ervin G. Johnson	General Agriculture	Westbrook, Maine
Ralph Perkins	Dairying	Orono, Maine
Henry R. Reed	Poultry	Arlington, Mass.
Karl R. Saunders	General Agriculture	Cedar Grove, Maine
H. E. Seavey	General Agriculture	270 14th St., Bangor, Me.
D. S. Thayer	Dairying	Belfast, Maine
W. S. Warland	Poultry	Wiscasset, Maine
Miss Lillian Washburn	Dairying	Livermore Falls, Maine R. F. D. #2
Mrs. F. H. Watson	Dairying	N. Dexter, Maine
J. W. G. Walker	Dairying	Brownfield, Maine
F. H. Watson	General Agriculture	N. Dexter, Maine

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